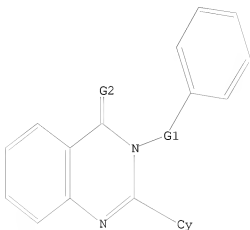


L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C, CH₂, CH, O, S, N, NH

G2 O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:09:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2978 TO ITERATE

67.2% PROCESSED 2000 ITERATIONS

27 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 56287 TO 62833

PROJECTED ANSWERS: 424 TO 1184

L2 27 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 10:10:04 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 60400 TO ITERATE

100.0% PROCESSED 60400 ITERATIONS

831 ANSWERS

SEARCH TIME: 00.00.02

L3 831 SEA SSS FUL L1

| | | |
|----------------------|------------|---------|
| => file caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 185.88 | 186.10 |

FILE 'CAPLUS' ENTERED AT 10:10:10 ON 20 MAR 2009
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FILE COVERS 1907 - 20 Mar 2009 VOL 150 ISS 13
FILE LAST UPDATED: 19 Mar 2009 (20090319/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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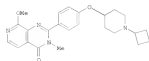
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 84 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM
 ACCESSION NUMBER: 2009:1372374 CAPLUS
 DOCUMENT NUMBER: 1501266
 TITLE: Development of novel 2-(4-(aminooalkoxy)phenyl)-4(1H)-quinazolinone derivatives as potent and selective histamine H3 receptor inverse agonists
 AUTHOR(S): Mitoishi, Takashi; Nagase, Takashi; Ito, Sayaka; Miyamoto, Yasuhisa; Tanaka, Takashi; Tanaka, Naohiro; Takai, Shigeru; Sato, Masahiko; Tanabe Research Institute, Machi Research Laboratories, Banyo Pharmaceutical Co., Ltd., 3
 CORPORATE SOURCE: Tanabe, Itadaki, 300-3611, Japan
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2009), 19(12), 6041-6045
 CODEN: BMCLD9, ISSN: 0960-894X
 PUBLISHER: Elsevier Ltd.
 JOURNAL TYPE: Journal
 LANGUAGE: English
 OR



I

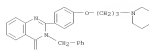
AB Novel 2-(4-(aminooalkoxy)phenyl)-4(1H)-quinazolinone deriva. were identified as potent human H3 receptor inverse agonists. After systematic modification of lead 1a, the potent and selective analog 1r (I) was identified. Elimination of H3R K+ channel and human alpha-2-adrenoceptor activities is the main focus of the present study.
 IT 570394-49-0
 RI PAC (Pharmacological activity); SPH (Synthetic preparation); THS (Therapeutic use); SIGL (Biological study); PREP (Preparation); USES (Uses)
 OR 1-(aminooalkoxy)phenyl quinazolinone deriva. as histamine H3 receptor inverse agonists
 RI 570395-43-5 CAPLUS
 OR 4(1H)-Quinazolinone, 2-(phenylmethyl)-2-[2-(3-(1-piperidinyl)propoxy)phenyl]- (CA INDEX NAME)

L4 ANSWER 2 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM
 ACCESSION NUMBER: 2009:1074141 CAPLUS
 DOCUMENT NUMBER: 149493608
 TITLE: An efficient synthesis of 2-(diaryl(1H)-quinazolin-4-onyl)-2-oxo-1-chlorides
 AUTHOR(S): Palusa, Andrew; Chasum, Nicola; Jones, Keith
 CORPORATE SOURCE: The Cancer Research UK Centre for Cancer Therapeutics,
 THE Institute of Cancer Research, Surrey, Sutton, SM2 3NG,
 UK
 SOURCE: Tetrahedron Letters (2008), 49(41), 5840-5842
 CODEN: TETLET, ISSN: 0040-4039
 PUBLISHER: Elsevier Ltd.
 JOURNAL TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 149:493608
 AB A practical and efficient 3-step synthetic route to 2-(diaryl(1H)-quinazolin-4-onyl)-2-oxo-1-chlorides was developed. The key step involves microwave-assisted condensation of an imidoyl chloride with an aryl amine.
 IT 450378-11-7
 RI SPH (Synthetic preparation); PREP (Preparation)
 OR 2-(diaryl(1H)-quinazolin-4-onyl)-2-oxo-1-chlorides with an aryl amine
 RI 450379-15-3 CAPLUS
 OR 4(1H)-Quinazolinone, 3-(phenylmethyl)-2-(3-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RECORD
 FORMAT

L4 ANSWER 1 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Cont. ahead)

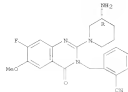


REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RECORD
 FORMAT

L4 ANSWER 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM
 ACCESSION NUMBER: 2009:1709203 CAPLUS
 DOCUMENT NUMBER: 149116693
 TITLE: Discovery of aloquiptin, A potent, selective, bioavailable, and efficacious inhibitor of dipeptidyl peptidase IV. [Erratum to document cited in CRI17-043333]
 AUTHOR(S): Peng, Jun; Zhang, Zhiyuan; Wallace, Michael S.; Staiford, Jeffrey A.; Haidori, Stephen K.; Basal, Daniel S.; Nave, Marc; Shi, Lihong; Skene, Robert
 J. Anakawa, Tomoko; Takuchi, Kenji; Xu, Hongtao; Webb, David S.; Oalliney, Stephen L.
 CORPORATE SOURCE: Tanabe San Diego, Inc., San Diego, CA, 92121, USA
 SOURCE: Journal of Medicinal Chemistry (2008), 51(14), 4257
 CODEN: JMCHEM, ISSN: 0022-2625
 PUBLISHER: American Chemical Society
 JOURNAL TYPE: Journal
 LANGUAGE: English
 AB On page 2297, Figure 3 is incorrect; the correct version of the figure is given. On page 2298, Figure 4 is incorrect; the correct version of the figure is given.
 IT 769157-45-5 769157-71-2P 940907-83-7P
 940907-94-8P 940907-85-8P 940907-87-1P
 940907-89-2P 940908-00-2P 940908-01-2P
 940908-02-1P 940908-23-2P 940908-25-4P
 940908-07-4P
 RI PAC (Pharmacological activity); PKT (Pharmacokinetics); SPH (Synthesis)
 OR 2-(4-(aminooalkoxy)phenyl)-4(1H)-quinazolinone derivatives as potent and selective histamine H3 receptor inverse agonists
 RI 769157-45-5 CAPLUS
 OR Benzimidazole, 2-([2-(3-(aminooalkoxy)-1-piperidinyl)-2-fluoro-6-methoxy-4-oxo-3(4H)-quinazolinyl]methyl)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 RI 769157-64-4
 ORF C22 R22 P H8 02
 Absolute stereochemistry.

14 ANNEK 3 OF 84 CAPLUS COPYRIGHT 2009 ACS ON 2TH (Continued)



CH 2
 CHN 76-05-1
 CHF C2 H F3 O2



RI 769157-11-3 CAPLUS
 CH Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

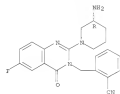
CH 3
 CHN 769157-10-2
 CHF C21 H20 F N5 O

Absolute stereochemistry.

14 ANNEK 3 OF 84 CAPLUS COPYRIGHT 2009 ACS ON 2TH (Continued)

CH 3
 CHN 769158-14-7
 CHF C21 H20 F N5 O

Absolute stereochemistry.



CH 2
 CHN 76-05-1
 CHF C2 H F3 O2

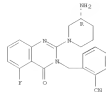


RI 940907-95-3 CAPLUS
 CH Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-6-chloro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 3
 CHN 769157-63-3
 CHF C21 H20 Cl N5 O

Absolute stereochemistry.

14 ANNEK 3 OF 84 CAPLUS COPYRIGHT 2009 ACS ON 2TH (Continued)

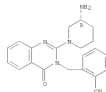


CH 2
 CHN 76-05-1
 CHF C2 H F3 O2



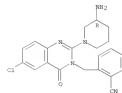
RI 940907-93-7 CAPLUS
 CH Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

Absolute stereochemistry.



RI 940907-94-8 CAPLUS
 CH Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

14 ANNEK 3 OF 84 CAPLUS COPYRIGHT 2009 ACS ON 2TH (Continued)



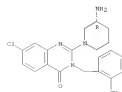
CH 2
 CHN 76-05-1
 CHF C2 H F3 O2



RI 940907-97-1 CAPLUS
 CH Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-7-chloro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 3
 CHN 940907-96-0
 CHF C21 H20 Cl N5 O

Absolute stereochemistry.



CH 2

14 ANWEX 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

CHN 76-05-1
CHF C2 H F3 O2

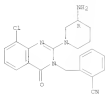


HN 940907-99-3 CAPLUS
CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-8-chloro-4-oxo-3(4R)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CHN 3

CHN 940907-98-2
CHF C21 H26 Cl N5 O

Absolute stereochemistry.



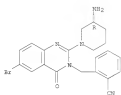
CHN 2

CHN 76-05-1
CHF C2 H F3 O2



HN 940908-00-3 CAPLUS
CN Benzonitrile,
2-[[2-[(1R)-3-amino-1-piperidinyl]-6,8-dichloro-4-oxo-3(4R)-

14 ANWEX 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



CHN 2

CHN 76-05-1
CHF C2 H F3 O2

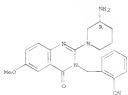


HN 940908-02-1 CAPLUS
CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-6-methoxy-4-oxo-3(4R)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CHN 3

CHN 76317-93-9
CHF C22 H23 N5 O2

Absolute stereochemistry.



CHN 2

Hasbe

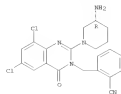
14 ANWEX 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CHN 1

CHN 76317-92-8
CHF C21 H19 Cl2 N5 O

Absolute stereochemistry.



CHN 2

CHN 76-05-1
CHF C2 H F3 O2



HN 940908-01-0 CAPLUS
CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-6-bromo-4-oxo-3(4R)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CHN 1

CHN 76317-89-3
CHF C21 H20 Br N5 O

Absolute stereochemistry.

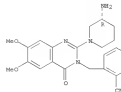
14 ANWEX 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

CHN 76-05-1
CHF C2 H F3 O2



HN 940908-03-2 CAPLUS
CN Benzonitrile,
2-[[2-[(1R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4R)-quinazolinyl]methyl]-, (CA INDEX NAME)

Absolute stereochemistry.



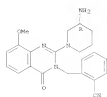
HN 940908-05-4 CAPLUS
CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-8-methoxy-4-oxo-3(4R)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CHN 1

CHN 940908-04-3
CHF C21 H23 N5 O2

Absolute stereochemistry.

14 ANSWER 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



CM 2
 CMI 76-05-1
 CNF C2 H F3 O2

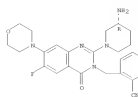


RI 940908-01-6 CAPLUS
 CI Mesonitrolic, 2-[[12-[(3R)-3-amino-1-piperidinyl]-6-fluoro-7-(4-morpholinyl)-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1
 CMI 761917-35-1
 CNF C25 R27 F 96 O2

Absolute stereochemistry.

14 ANSWER 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

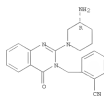


CM 2
 CMI 76-05-1
 CNF C2 H F3 O2



IT 940907-93-7BP, complex with dipeptidyl peptidase IV
 RIu 77P (Preparation); BPH (Synthetic preparation); PREP (Preparation) (discovery of alogliptin, a potent, selective, bisubstrate, and efficacious inhibitor of dipeptidyl peptidase IV (lestatin))
 RI 940907-93-7 CAPLUS
 CI Mesonitrolic, 2-[[12-[(3R)-3-amino-1-piperidinyl]-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



14 ANSWER 3 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

14 ANSWER 4 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007180411 CAPLUS
 DOCUMENT NUMBER: 147385526
 TITLE: Automated Liquid-Liquid Extraction Workstation for Library Synthesis and Its Use in the Parallel and Chromatography-Free Synthesis of 2-Alkyl-3-alkyl-4(3H)-quinazolinones
 AUTHOR(S): Carpio, Mercedes; Cifuentes, Maria; Ferrito, Rafael; Moro, Ruben; Toledo, Miguel A.
 CORPORATE SOURCE: Centro de Investigacion Lilly, Alcobendas, Madrid, 28106, Spain
 SOURCE: Journal of Combinatorial Chemistry (2007), 9(5), 818-822
 CDBN: JCOCHF; ISSN: 1520-4766
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CHEMTRACT 147385526

AB An automated liquid-liquid extraction workstation has been developed.

This module

processes up to 96 samples in an automated and parallel mode avoiding the time-consuming and intensive sample manipulation during the workup process. To validate the workstation, a highly automated and chromatography-free synthesis of differentially substituted quinazolin-4(3H)-ones with two diversity points was carried out using isotole anhydride as starting material.

IT 19857-37-5P

RI: CMI (Combinatorial preparation); CMI (Combinatorial study); PREP (Preparation)

(Automated liquid-liquid extraction apparatus for combinatorial synthesis of
 alkylquinazolinones via amidation of isotole anhydride with amines,
 acylation of aminebenzimidazoles with carboxylic acids, and
 heterocyclization of carbonylbenzimidazoles)

RI 19857-37-5 CAPLUS

CI 4(3H)-Quinazolinone, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

14 ANNEE 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 14745593
 DOCUMENT NUMBER: 2007:427945 CAPLUS
 TITLE: Discovery of Alogliptin: A Potent, Selective, Bioavailable, and Efficacious Inhibitor of Dipeptidyl Peptidase IV
 AUTHOR(S): Feng, Jiny; Chang, Shiyuan; Wallace, Michael B.; Stafford, Jeffrey A.; Maloney, Stephen W.; Kessel, Daniel S.; Havens, Marc; Shi, Lihong; Skene, Robert
 J.:
 CORPORATE SOURCE: Takeda San Diego, Inc., San Diego, CA, 92121, USA
 SOURCE: JCBP 1320
 PUBLISHER: OCEAN MICROFILMS, ISSN: 0022-2625
 DOCUMENT TYPE: American Chemical Society
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 14745593

AB Alogliptin is a potent, selective inhibitor of the serine protease dipeptidyl peptidase IV (DPP-4). Herein, the authors describe the structure-based design and optimization of alogliptin and related quinazolinone-based DPP-4 inhibitors. Following an oral dose, these noncovalent inhibitors provide sustained reduction of plasma DPP-4 activity and a lowering of blood glucose in animal models of diabetes. Alogliptin is currently undergoing phase III trials in patients with type 2 diabetes.

IT 76157-43-9F 34297-71-9F 34297-97-7F
 34297-94-9F 34297-91-9F 34297-97-1F
 34297-99-7F 34298-00-9F 34298-01-0F
 34298-02-1F 34298-03-2F 34298-05-4F
 34298-07-4F

IL PAC (Pharmacological activity); PKT (Pharmacokinetics); SYN (Synthesis)
 Preparation; THU (Therapeutic use); NOL (Biological uses); PREP (Preparation); USES (Uses)
 Discovery of alogliptin, a potent, selective, bioavailable, and efficacious inhibitor of dipeptidyl peptidase IV

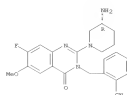
RI 76157-43-5 CAPLUS
 CH Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-7-fluoro-6-methoxy-2-oxo-3,4-dihydroquinazolin-6-yl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1

CHI 76157-44-4
 CMF C22 H22 F N5 O2

Absolute stereochemistry.

14 ANNEE 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



CH 2

CHI 76-05-1
 CMF C2 H F3 O2



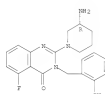
RI 76157-71-3 CAPLUS
 CH Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-4-oxo-3-(4R)-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1

CHI 76157-70-2
 CMF C22 H20 F N5 O

Absolute stereochemistry.

14 ANNEE 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



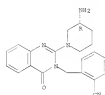
CH 2

CHI 76-05-1
 CMF C2 H F3 O2



RI 34297-93-7 CAPLUS
 CH Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-4-oxo-3-(4R)-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

Absolute stereochemistry.



RI 34297-94-8 CAPLUS
 CH Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3-(4R)-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

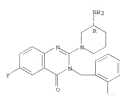
CH 1

CHI 769358-14-7

14 ANNEE 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

CHI C22 H20 F N5 O

Absolute stereochemistry.



CH 2

CHI 76-05-1
 CMF C2 H F3 O2

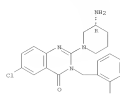


RI 34297-95-9 CAPLUS
 CH Benzonitrile, 2-[(2-[(3R)-3-amino-1-piperidinyl]-6-chloro-4-oxo-3-(4R)-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1

CHI 769357-63-3
 CMF C22 H20 Cl N5 O

Absolute stereochemistry.



14 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

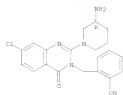
CH 2
 CHN 76-05-1
 CNF C2 H F3 O2



BN 940907-97-1 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-7-chloro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 CHN 940907-96-0
 CNF C21 H20 Cl N5 O

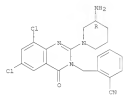
Absolute stereochemistry.



CH 2
 CHN 76-05-1
 CNF C2 H F3 O2



14 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



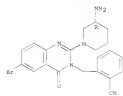
CH 2
 CHN 76-05-1
 CNF C2 H F3 O2



BN 940908-01-0 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-6-bromo-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 CHN 76157-99-3
 CNF C21 H20 Br N5 O

Absolute stereochemistry.



CH 2

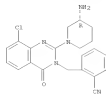
Habt

14 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

BN 940907-99-3 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-8-chloro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 CHN 940907-98-2
 CNF C21 H20 Cl N5 O

Absolute stereochemistry.



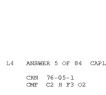
CH 2
 CHN 76-05-1
 CNF C2 H F3 O2



BN 940908-02-9 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-6,8-dichloro-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 CHN 76157-99-9
 CNF C21 H19 Cl2 N5 O

Absolute stereochemistry.



14 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

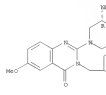
CHN 76-05-1
 CNF C2 H F3 O2



BN 940908-02-1 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-6-methoxy-4-oxo-3(4H)-quinazolinyl]methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CH 1
 CHN 76157-99-9
 CNF C22 H23 N5 O2

Absolute stereochemistry.



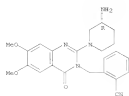
CH 2
 CHN 76-05-1
 CNF C2 H F3 O2



BN 940908-02-2 CAPLUS
 CN Benzonitrile, 2-[[2-[(1R)-3-amino-1-piperidinyl]-4,7-dimethoxy-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

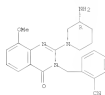


RI 946908-05-4 CAPLUS
 CN Benzonitrile, 2-[(2-{3-amino-1-piperidinyl}-8-methoxy-4-oxo-1-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CN 3

CHI 946908-04-3
 CNF C22 R23 R5 G2

Absolute stereochemistry.

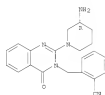


CN 2

CHI 76-05-1
 CNF C2 R F3 G2

L4 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 CN Benzonitrile, 2-[(2-{3-amino-1-piperidinyl}-4-oxo-1-quinazolinyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 5 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



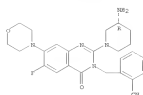
RI 946908-07-6 CAPLUS

CN Benzonitrile, 2-[(2-{3-amino-1-piperidinyl}-4-fluoro-7-(4-methylphenyl)-6-oxo-1(4H)-quinazolinyl)methyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CN 1

CHI 76157-35-1
 CNF C2 R2 F R6 G2

Absolute stereochemistry.



CN 2

CHI 76-05-1
 CNF C2 R F3 G2



IT 946907-93-TDP, complex with dipeptidyl peptidase IV
 RI: PEP (Properties); SPH (Synthetic preparation); FEP (Preparation)
 (discovery of dipeptidyl amines, a potent, selective, bioavailable, and
 efficacious inhibitor of dipeptidyl peptidase IV)

RI 946907-93-7 CAPLUS

L4 ANSWER 6 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 200739939 CAPLUS

DOCUMENT NUMBER: 1475562

TITLE: Hexamethylsilazane-iodine induced intramolecular
 dehydrative cyclization of diamides: A general access
 to natural and unnatural quinoxalones
 Kulkarni, Umesh A.; Wadga, Santosh B.; Agade,
 Narashima P.

CORPORATE SOURCE: Division of Organic Chemistry (Synthesis), National
 Chemical Laboratory, Pune, 411 008, India

SOURCE: Tetrahedron Letters (2007), 48(18), 3243-3246

CROSS REF: JCSH 0040-4039

JOURNAL: Elsevier Ltd.

LANGUAGE: English

OTHER SOURCE(S): CHEMABSTRACT 1475562

AB A simple and efficient general approach to various quinoxalones
 scaffolds, including pteridomimetic examples, has been demonstrated by
 employing hexamethylsilazane-iodine-induced intramolecular dehydrative
 cyclization of diamides. The protecting groups, such as Boc, Fmoc and
 Cbz, are tolerated and no racemization of optically active substrates was
 observed. The present protocol has also been used as a key step for the
 efficient four-step synthesis of the naturally occurring quinoxalones,
 such as sclerotigenin, (-)-circumatin-F and (-)-Fusquinazoline-F.

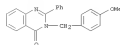
IT 939966-52-49 939966-52-49

RI: SPH (Synthetic preparation); PEP (Preparation)

(general approach to natural and non-natural quinoxalines via
 hexamethylsilazane-iodine induced intramolecular dehydrative cyclization
 of *o*-(acylamido) benzenes)

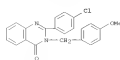
RI 939966-50-4 CAPLUS

CN (43R)-Quinoxalinoine, 3-[(4-methoxyphenyl)methyl]-2-phenyl- (CA INDEX NAME)



RI 939966-52-6 CAPLUS

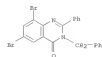
CN (43R)-Quinoxalinoine, 2-[(4-chlorophenyl)-3-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 6 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 7 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT



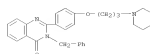
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR
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RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 8 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

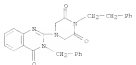
L4 ANSWER 9 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 10 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 11 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT



14 ANSWER 12 OF 84 CAPLUS COPYRIGHT 2009 ACS ON SYN (Continued)
 ACCESSION NUMBER: 20041125357 CAPLUS
 DOCUMENT NUMBER: 14162382
 TITLE: Pyrimidine compound and optical recording material
 USING IT
 INVENTOR(S): Shiozaki, Hiroshi; Ishida, Tadamasa; Ogino, Akira
 PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
 COORDIN. SYNOUS
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: 1



14 ANSWER 11 OF 84 CAPLUS COPYRIGHT 2009 ACS ON SYN
 ACCESSION NUMBER: 200515595 CAPLUS
 DOCUMENT NUMBER: 142136323
 TITLE: Microwave-assisted one-pot synthesis of 2,3-disubstituted 3H-quinazolin-4-ones
 LIB. JI-Peng Geng, Jianyou Ballon, Aota M.; Li, Grace; Yu, Liang; Baldisio, Carmen M.; McElroy, Eric; Brown, Matt
 CORPORATE SOURCE: Division of Chemical Technologies, AirQua, Inc., Woburn, MA, 01801, USA
 TETRAHEDRON LETTERS (2005), 46(8), 1241-1244
 CORD: TETRA, ISSN: 0040-4039
 ELSEVIER 3.V.
 PUBLISHER: Journal
 SOURCE: English
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142136323
 AB: A practical synthesis of 2,3-disubstituted 3H-quinazolin-4-ones with broad chemical scope is described. The key step is the microwave promoted one-pot, two-step reaction sequence combining anthranilic acid, carbonyl acid, and amine providing efficient access to this important class of heterocycles. Furthermore, the reaction of 2-amino-3-pyridinecarboxylic acid with benzoyl chloride and benzeneethanamine gave 2-phenyl-3-(phenylmethyl)pyrido[2,3-d]pyrimidin-4(3H)-one.
 IT 19557-37-19
 RI: SPI (Synthetic Preparation); PREP (Preparation)
 SOURCE: [Preparation of (phenyl)(phenylmethyl)-4(3H)-quinazolinone by microwave-assisted reaction using (amino)benzoic acid, benzoyl chloride, and amine as starting materials]
 RI 19557-37-5 CAPLUS
 CN 4(3H)-Quinazolinone, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE AS FORMAT

14 ANSWER 12 OF 84 CAPLUS COPYRIGHT 2009 ACS ON SYN (Continued)
 ACCESSION NUMBER: 20041125357 CAPLUS
 DOCUMENT NUMBER: 14162382
 TITLE: Pyrimidine compound and optical recording material
 USING IT
 INVENTOR(S): Shiozaki, Hiroshi; Ishida, Tadamasa; Ogino, Akira
 PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
 COORDIN. SYNOUS
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2004358129 | A | 20041224 | JP 2003-160251 | 20030405 |
| JP 4202070 | B2 | 20081224 | JP 2003-160251 | 20030405 |

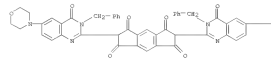
PRIORITY APPL. INFO.:
 OTHER SOURCE(S): MARPAT 142136323
 CI



AB A compound 1 [AB3-3 = (un)substituted aromatic residue; X11-12 = O, S, X11-12 = S, (un)substituted alkyl, aralkyl, aryl] having two 2-(4-(thio)oxypyrimidin-2-yl)-3-propenone structures is claimed. The material contains at of 1. The material is recorded and read by 200-300 nm laser beam, especially by blue-violet laser with 400-410 nm.
 IT 511802-68-6
 RI: TDS (Technical or engineered material use); USBS (Uses)
 (optical recording material containing pyrimidinyl propenone compound)
 RI 511803-68-6 CAPLUS
 CN 2-(thio)oxo-2,3,5,7(12,6H)-tetraone, 2,6-bis[2,4-dihydro-6-(4-morpholinyl)-4-oxo-3-(phenylmethyl)-2-quinazolinyl]- (CA INDEX NAME)

14 ANSWER 12 OF 84 CAPLUS COPYRIGHT 2009 ACS ON SYN (Continued)

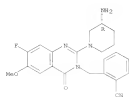
PAGE 1-A



PAGE 1-B



L4 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



CM 2
 CHN 76-05-1
 CHF C2 H F3 O2



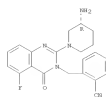
HN 769157-71-3 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-piperidinyl]-5-fluoro-4-oxo-3(4R)-quinazolinyl]methyl)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 3

CHN 769157-70-2
 CHF C21 H20 F N5 O

Absolute stereochemistry.

L4 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

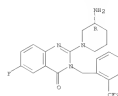


CM 2
 CHN 76-05-1
 CHF C2 H F3 O2



HN 769157-81-5 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-piperidinyl]-4-fluoro-3-[[2-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)

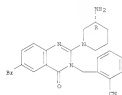
Absolute stereochemistry.



HN 769157-89-3 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-piperidinyl]-6-bromo-4-oxo-3(4R)-quinazolinyl]methyl)- (CA INDEX NAME)

L4 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Absolute stereochemistry.

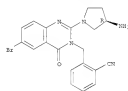


HN 769157-91-7 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-pyrrolidinyl]-6-bromo-4-oxo-3(4R)-quinazolinyl]methyl)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 3

CHN 769157-90-6
 CHF C20 H18 Br N5 O

Absolute stereochemistry.



CM 2
 CHN 76-05-1
 CHF C2 H F3 O2



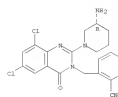
HN 769157-92-8 CAPLUS

Habe

L4 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

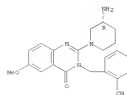
2-([2-[(3R)-3-amino-1-piperidinyl]-6,8-dichloro-4-oxo-3(4R)-quinazolinyl]methyl)- (CA INDEX NAME)

Absolute stereochemistry.



HN 769157-93-3 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-piperidinyl]-4-methoxy-4-oxo-3(4R)-quinazolinyl]methyl)- (CA INDEX NAME)

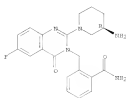
Absolute stereochemistry.



HN 769157-94-0 CAPLUS
 CH Benzonitrile, 2-([2-[(3R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4R)-quinazolinyl]methyl)- (CA INDEX NAME)

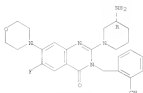
Absolute stereochemistry.

14 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

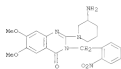


RI 769157-95-3 CAPLUS
 CN Benzonitrile, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6-fluoro-7-(4-morpholinyl)-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

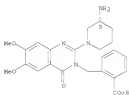


RI 769158-02-2 CAPLUS
 CN 4[(R)-Quinoxalylidene, 2-[(3-amino-1-piperidinyl)-6,7-dimethoxy-3-[(2-nitrophenyl)methyl]- (CA INDEX NAME)



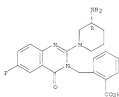
RI 769158-02-3 CAPLUS

14 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

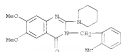


RI 769159-05-6 CAPLUS
 CN Benzoic acid, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RI 769159-06-7 CAPLUS
 CN Benzonitrile, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

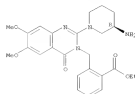


RI 769159-14-7 CAPLUS
 CN Benzonitrile, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

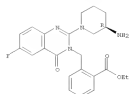
14 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 CN Benzoic acid, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RI 769158-02-4 CAPLUS
 CN Benzoic acid, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6-fluoro-4-oxo-3(4H)-quinazolinyl]methyl]-, ethyl ester (CA INDEX NAME)

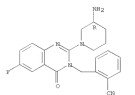
Absolute stereochemistry.



RI 769158-04-5 CAPLUS
 CN Benzoic acid, 2-[[2-[(13R)-3-amino-1-piperidinyl]-6,7-dimethoxy-4-oxo-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

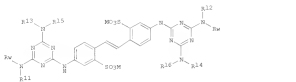
14 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L4 ANSWER 14 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)
 ACCESSION NUMBER: 2004:004302 CAPLOS
 DOCUMENT NUMBER: 141164773
 TITLE: Processing of silver halide color photographic material containing yellow coupler and color imaging method to improve yellow color reproducibility
 INVENTOR(S): Ishida, Hiroshi; Tanaka, Shingo
 PATENT ASSIGNEE(S): Matsushita Electric Ind. Co., Ltd.; Japan; Honma Minolta Photo Imaging K. K.
 SOURCE: Jpn. Pat. Tokyo Kobo, 91 pp.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACQ. SPM. COUNT: 1
 PATENT INFORMATION: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|------------|
| JF 2004042976 | A | 20040729 | JF 2003-291101 | 20030911 |
| JF 2004044736 | A | 20040902 | JF 2003-201438 | 20030725 |
| PRIORIT AFFIL. INFO. | | | JF 2002-768028 | A 20021129 |

OTHER SOURCE(S): MARPAT 141:164773
 CL



I

A2 A silver halide color photoq. material containing a yellow coupler represented by R1n-O-NH-O-R2 (R1 = aliphatic, aromatic, heterocyclic, alkoxyl, arylalkyl, alkyl, n = 1, 2; R2 = coupling group; O = -CO, -C(R)3, -PO-, -BO-, -SO2-; R3 = R2) is processed by a processing solution containing a compound represented by 1. R11, R12 = H, substituent; R13, R14 = H, alkyl, aryl; R15, R16 = -C(R)2F-Cp, -C(R)2Bz-Ci, -C(R)2-Ck-H; Rn = H, -C(R)2F-Cp, -C(R)2Bz-Ci, -C(R)2-Ck-H, -C(R)2H2SO3M; H = H, alkali metal; alkaline earth metal, ammonium pyridinium; A = H, hydroxyl, hydroxymethyl.

L4 ANSWER 15 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)
 ACCESSION NUMBER: 2004:004090 CAPLOS
 DOCUMENT NUMBER: 141157019
 TITLE: One-pot synthesis of 4(3H)-quinazolinones
 INVENTOR(S): Bhat, Bashir A.; Bhat, Devi P.
 CORPORATE SOURCE: Chemical Technology Division, Central Drug Research Institute, Lucknow, India
 SOURCE: Synthetic Communications (2004), 34(12), 2169-2176
 COUNTRY SPECIFY: 258H: 0039-7911
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:157019
 AB Anthracene amides undergo cyclodehydration with aldehydes in presence of iodine in a single-pot reaction to afford 2-substituted 4(3H)-quinazolinones in moderate to excellent yield (40-85%). 2,7-Substituted 4(3H)-quinazolinones are synthesized in moderate to good yield by three-component condensation of isatoic anhydride, aniline, and aldehyde in presence of iodine.
 IT 1985:37-50 260579-77:49 450377-43:29
 XL 870 [Synthetic preparation]; PREP [Preparation] (one-pot preparation of 4(3H)-quinazolinones by cyclodehydration of anthracene amides with aldehyde or by three-component condensation of isatoic anhydride with amine, and aldehyde)
 XH 1985:37-50 CAPLOS
 CH 4(3H)-Quinazolinone, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



XH 260579-77-8 CAPLOS
 CH 4(3H)-Quinazolinone, 2-(4-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)



XH 450377-43-2 CAPLOS
 CH 4(3H)-Quinazolinone, 2-(4-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)

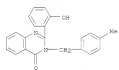
L4 ANSWER 14 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)
 1-hydroxyethyl, 1-hydroxyethyl, 3-hydroxypropyl, 2-hydroxypropyl, 1-hydroxypropyl, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 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606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 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1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885,

14 ANSWER 16 OF 84 CARLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2004-412920 CARLUS
 DOCUMENT NUMBER: 140423688
 TITLE: Preparation of quinazolinone derivatives as
 chemopreventives
 INVENTOR(S): Shoshitaishvili, Irina; Balandieri, Marcello; Fox, John;
 Seston, William; Conklin, Rebecca; Papar, Damon
 PATENT ASSIGNEE(S): NPS Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 74 pp.
 DOCUMENT TYPE: COBOL, P1X030
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------------|------------------|----------|
| WO 2004041755 | A2 | 20040521 | WO 2003-053162 | 20031104 |
| WO 2004042156 | A2 | 20040709 | | |
| WI AT, AU, AL, AM, AR, BG, BR, CA, CH, CN, CO, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LT, MD, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, TR, TT, UA, US, VE, VN, YU, ZA, ZM, ZW | | | | |
| EP 1532602 | A2 | 20040521 | CA 2003-2502302 | 20031104 |
| CA 2502302 | AL | 20040521 | CA 2003-2502302 | 20031104 |
| US 2003231761 | A1 | 20040607 | AD 2003-21761 | 20031104 |
| EP 1532602 | A2 | 20030902 | EP 2003-16855 | 20031104 |
| WI AT, BE, BG, BR, CH, CN, CO, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LT, MD, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, TR, TT, UA, US, VE, VN, YU, ZA, ZM, ZW | | | | |
| JP 200412731 | A | 20051214 | CH 2003-80120426 | 20031104 |
| JP 200412731 | T | 20060413 | JP 2004-150482 | 20031104 |
| US 2004043245 | A1 | 20050309 | US 2005-153161 | 20040412 |
| MX 200504320 | ME | 2005-03-20 | 20050412 | |
| PRIORITY APPL. INFO. | 1 | US 2002-423688 | P 20031104 | |
| | | WO 2003-053162 | M 20031104 | |

OTHER SOURCE(S): MNPAT 140423688
 GI

14 ANSWER 16 OF 84 CARLUS COPYRIGHT 2009 ACS ON STN (Continued)



WI 631378-78-4 CARLUS
 CH 4132-Quinazolinone, 6-fluoro-2-(2-hydroxyphenyl)-2-(1-methyl-1-phenylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

PRIORITY APPL. INFO. 1 US 2002-423688 P 20031104

14 ANSWER 16 OF 84 CARLUS COPYRIGHT 2009 ACS ON STN (Continued)



AB The title comds. 1 (R1, R2, R3 = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; R4 (optionally = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; X = C or N; R5 = H, alkyl, (aryl, thienyl), styryl, pyridyl, (substituted)phenyl; R6 = H, alkyl, or -(CR2)3-X1-3,7, n = 0-2; X1 = C, O, CO, CHOH, alkyl, or a single bond; 3') = an aromatic group optionally substituted with 1-3 substituents selected from H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.) were prepared as calcium receptor antagonists for the treatment of bone diseases. Thus, reaction of 5-substituted[6,11]quinolin-4-one

(Preparation given) with phenethylamine gave compound 11. Methods to determine the bioactivity of the compound of this invention were demonstrated.

IT 631378-78-9 631378-76-4P

RU PAC (Pharmacological activity); SH (Synthetic preparation); TH (Therapeutic use); ZIC (Biological study); PEP (Preparation); DEX (Data)

(Preparation of quinazolinone derivs. as calcium antagonists)

WI 631378-78-9 CARLUS

CH 4130-Quinazolinone, 2-(2-hydroxyphenyl)-3-[(4-methylphenyl)methyl]- (CA INDEX NAME)

14 ANSWER 17 OF 84 CARLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2004-154710 CARLUS
 DOCUMENT NUMBER: 140150546
 TITLE: Heterocyclic-substituted quinazolinones preparation for treating cellular proliferative diseases

INVENTOR(S): Bergues, Gustave; Morgans, David J., Jr.
 PATENT ASSIGNEE(S): Cytoskeleton, Inc., USA
 SOURCE: PCT Int. Appl., 61 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: 1
 PATENT INFORMATION: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------------|-----------------|----------|
| WO 2004042972 | A2 | 20040429 | WO 2003-053078 | 20030930 |
| WO 2004042972 | A2 | 20041129 | | |
| WI AT, AU, AL, AM, AR, BG, BR, CA, CH, CN, CO, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LT, MD, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, TR, TT, UA, US, VE, VN, YU, ZA, ZM, ZW | | | | |
| MX 030217079 | A1 | 20040504 | AD 2003-27789 | 20030930 |
| EP 1530803 | A2 | 20050603 | EP 2003-089578 | 20030930 |
| WI AT, BE, BG, BR, CH, CN, CO, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LT, MD, MG, MK, MN, MU, MY, NL, NO, NZ, PL, PT, RU, SE, SG, SI, SK, SL, TR, TT, UA, US, VE, VN, YU, ZA, ZM, ZW | | | | |
| JP 2004051306 | T | 20060112 | JP 2004-144787 | 20030930 |
| US 2004051306 | A1 | 20060112 | US 2005-527445 | 20031114 |
| PRIORITY APPL. INFO. | 1 | US 2002-41476P | P 20030930 | |
| | | WO 2003-053078 | M 20030930 | |

OTHER SOURCE(S): MNPAT 140150546
 GI



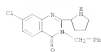
AB Heterocyclic-substituted quinazolinones were prepared for treating cellular proliferative diseases and disorders, for example, by modulating the activity of RSK. 1 and other similar comds. were prepared and examples

L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
were given, e.g., induction of mitotic arrest in cell populations treated with a KSP inhibitor, monopolar spindle formation following application

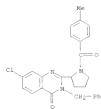
of a KSP inhibitor, and inhibition of cellular proliferation in tumor cells lines with the inhibitors.
IT 681827-24-7 CAPLUS
Me: PNC (Pharmacological activity); STM (Synthetic preparation); TSW (Therapeutic use); BGL (Biological study); PREP (Preparation); USGS (Use)

(heterocyclic-substituted quinazolinones preparation for treating cellular proliferative diseases)

NI 681827-24-7 CAPLUS
CN 4130-Quinazolinone, 7-chloro-3-[(4-phenylmethyl)-2-(2-pyrrolidinyl)]-3-phenylmethyl- (CA INDEX NAME)

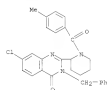


NI 681827-25-8 CAPLUS
CN 4130-Quinazolinone, 7-chloro-2-[1-[(4-methylbenzoyl)-2-pyrrolidinyl]-3-(phenylmethyl)]- (CA INDEX NAME)

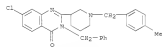


NI 681827-26-9 CAPLUS
CN 4130-Quinazolinone, 7-chloro-2-[1-[(4-methylphenyl)methyl]-2-pyrrolidinyl]-3-(phenylmethyl)- (CA INDEX NAME)

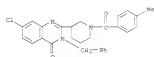
L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



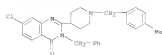
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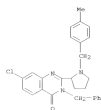
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CN 4130-Quinazolinone, 7-chloro-2-[1-[(4-methylphenyl)methyl]-4-piperidinyl]-3-(phenylmethyl)- (CA INDEX NAME)

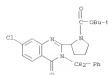


L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



IT 681827-42-9P
R1: RCT (Reagent); STM (Synthetic preparation); PREP (Preparation); RAC (Reagent or reagent)
(heterocyclic-substituted quinazolinones preparation for treating cellular proliferative diseases)

NI 681827-42-9 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[7-chloro-3,4-dihydro-4-oxo-7-(phenylmethyl)-3-quinazolinyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



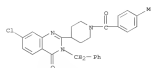
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681827-36-1P 681827-37-2P 681827-38-3P
681827-39-4P

R1: STM (Synthetic preparation); TSW (Therapeutic use); BGL (Biological study); PREP (Preparation); USGS (Use)
(heterocyclic-substituted quinazolinones preparation for treating cellular proliferative diseases)

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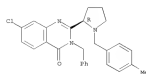
L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

NI 681827-34-9 CAPLUS
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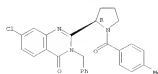
NI 681827-35-0 CAPLUS
CN 4130-Quinazolinone, 7-chloro-2-[1-[(2R)-1-[(4-methylphenyl)methyl]-2-pyrrolidinyl]-3-(phenylmethyl)]- (CA INDEX NAME)

Absolute stereochemistry.



NI 681827-36-1 CAPLUS
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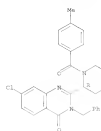
Absolute stereochemistry.



NI 681827-37-2 CAPLUS
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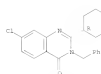
L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

Absolute stereochemistry.



ZN 451821-19-3 CAPLUS
 CH 4138-Quinoxalinone, 7-chloro-2-[(1R)-3-{[4-methylphenyl)methyl]-3-piperidinyl}-3-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



ZN 451821-19-4 CAPLUS
 CH 4138-Quinoxalinone, 7-chloro-2-[(1R)-3-{[4-methylphenyl)methyl]-3-piperidinyl}-3-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNER(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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OTHER SOURCE(S):

MARKET 140139471

At the invention relates to quinoxalinone-like deris, that are inhibitors of

the mitotic kinase FKP and are useful as the treatment of cellular

proliferative diseases, for example cancer, hyperplasia, metastases,

cardiac hypertrophy, immune disorders and inflammation. Preparation of

3-benzyl-7-chloro-2-(3-benzyl-2-oxo-5-hydroxy-1H-indolin-4-yl)-3H-quinoxalin-

4-one is disclosed.

IT 1070549-48-2 1070549-50-6 1070549-54-0

1070549-51-1 1070549-54-1 1070549-57-3

1070549-60-8 1070549-61-3 1070549-62-0

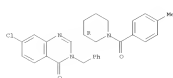
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1070549-53-7 1070549-54-5 1070549-57-1

1070549-60-6

L4 ANSWER 17 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



L4 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

ACCESSION NUMBER:

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TITLE:

INVENTOR(S):

PATENT ASSIGNER(S):

SOURCE:

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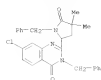
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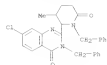
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| CH | 4130 | Quinacrine | | |
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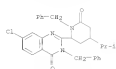
14 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 RE 1070549-31-1 CAPLUS
 CH INDEX NAME NOT YET ASSIGNED



RE 1070549-44-2 CAPLUS
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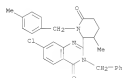


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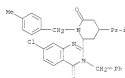


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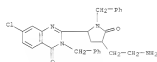
14 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



RE 1070549-63-1 CAPLUS
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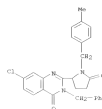


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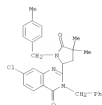


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14 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

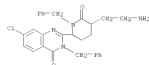


RE 1070549-61-9 CAPLUS
 CH INDEX NAME NOT YET ASSIGNED

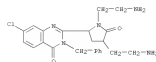


RE 1070549-62-0 CAPLUS
 CH 4-[3R]-Quinoxalino-7-chloro-2-[3-[(4-methylphenyl)methyl]-5-oxo-2-pyrrolidinyl]-3-(phenylmethyl)-1,4-dihydroquinazolin-5-one (CA INDEX NAME)

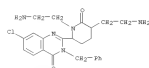
14 ANSWER 18 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



RE 1070549-69-7 CAPLUS
 CH 4-[3R]-Quinoxalino-7-chloro-2-[3-[(4-methylphenyl)methyl]-5-oxo-2-pyrrolidinyl]-3-(phenylmethyl)-1,4-dihydroquinazolin-5-one (CA INDEX NAME)



RE 1070549-70-0 CAPLUS
 CH 4-[3R]-Quinoxalino-7-chloro-2-[3-[(4-methylphenyl)methyl]-5-oxo-2-pyrrolidinyl]-3-(phenylmethyl)-1,4-dihydroquinazolin-5-one (CA INDEX NAME)



RE 1070549-67-9 CAPLUS
 CH INDEX NAME NOT YET ASSIGNED

L4 ANSWER 19 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:69233 CAPLUS
DOCUMENT NUMBER: 140235676

TITLE: Synthesis and reactions of

3-amino-2-methyl-2H-[1,2,4]triazolo[5,1-b]quinoxaline-9-one and 2-hydrazino-3-phenylamino-3H-quinoxaline-4-one

AUTHER(S): Chemisty Department, Faculty of Science, Tanta

UNIVERSITY, Tanta, Egypt

JOURNAL: Journal of Heterocyclic Chemistry (2007), 40(4),

973-978

CODEN: JHETDH 1588: 0022-152X

KEYWORDS: Nucleoside

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140235676

CA



I



II

AB The reaction of 3-N-(2-mercapto-4-oxo-4H-quinoxaline-3-yl)acetamide with hydrazine hydrate yielded 3-amino-2-methyl-2H-[1,2,4]triazolo[5,1-b]quinoxaline-9-one (I; R = H). The reaction of 3 (R = H) with o-chlorobenzaldehyde and 2-hydroxyaphthaldehyde gave the corresponding 3-arylidene amino derivative. Condensation of 3 (R = H) with 1-nitro-2-naphthol afforded the corresponding 2-(2-hydroxynaphthalen-1-yl-diazenyl)-2-methyl-2H-[1,2,4]triazolo[5,1-b]quinoxaline-9-one, which on subsequent reduction by SnCl₂ and HCl gave the hydrazine derivative. Reaction of 3 (R = H) with Ph isothiocyanate in refluxing ethanol yielded thionurea derivative 3 (R = CSNHPh). Ring closure of the latter subsequently cyclized on refluxing with phenacyl bromide, oxalyldichloride, and chloroacetic acid to afford the corresponding thiazolidine derivative, e.g. II. Reaction of 2-mercapto-3-phenylamino-3H-quinoxaline-4-one with hydrazine hydrate afforded 2-hydrazino-3-phenylamino-2H-quinoxaline-4-one (III). The reactivity of III towards oxaloum disulfide, acetylacetone, and H acetate was investigated. Condensation of III with isatin afforded 2-(3-(2-oxo-1,2-dihydroindol-3-ylidene)hydrazino)-2-phenylamino-3H-

L4 ANSWER 19 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
quinoxaline-4-one. 2-(4-Oxo-3-phenylamino-3,4-dihydroquinoxaline-2-ylamino)isoureaide, 3,3-dione was synthesized by the reaction of III with phthalic anhydride. All isolated products were confirmed by their IR, ¹H NMR, ¹³C NMR and mass spectra.

IT 649022-44-47

RE: STN (Synthetic preparation); PREP (Preparation)

(preparation and reactions of

3-amino-2-methyl-2H-[1,2,4]triazolo[5,1-b]-

quinoxaline-9-one and 2-hydrazino-3-phenylamino-3H-quinoxaline-4-one)

NR 649022-44-4 CAPLUS

CN 4138-Quinoxalinone, 3-[(2,5-dimethyl-1H-pyrazol-1-yl)-3-(phenylamino)-

(CA INDEX NAME)



REFERENCE CONT:

24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR

TEXT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 20 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:30755 CAPLUS

DOCUMENT NUMBER: 140170902

TITLE: 2-Methyl- and 2-phenyl-3-arylamino-4(3H)-

quinoxalinones

AUTHER(S): Strakova, Andrija; Avotina, Fricis; Petrova, Marina;

Strakova, Tana

INSTITUTE SOURCE: Fac. Material Sci. Applied Chem., Riga Technical

Univ., Riga, LV 1008, Latvia

SOURCE: Rigas Tehniskas Universitates Elektroskolas Raksti,

Serija 1 Materialzinatnes un Lietiska Kimija (2002),

4, 80-83

CODEN: RTUJAL

KEYWORDS: Indermicine RTU

DOCUMENT TYPE: Journal

LANGUAGE: Latvian

OTHER SOURCE(S): CASREACT 140170902

AB Reactions of 2-methyl- and 2-phenyl-4-oxo-3,1-benzoxazines with

hydrochlorides 4-bromo-, 4-fluoro-, 3-chloro-, 2,4-difluoro-,

2,4-dichloro- and 2-oxocyclopropylhydrazines,

3,5-dinitrofluoromethylphenylhydrazine were carried out under reflux in

pyridine to give the corresponding 3-arylamino-4(3H)-quinoxalinones.

IT 640277-02-02 640277-02-02 640277-02-02

640277-02-02 640277-02-02

640277-02-02 640277-02-02

640277-02-02 640277-02-02

640277-02-02 640277-02-02

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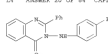
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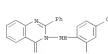
L4 ANSWER 20 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



NR 640277-02-03 CAPLUS

CN 4138-Quinoxalinone, 3-[(2,4-dichlorophenyl)amino]-2-phenyl-

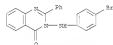
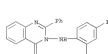
(CA INDEX NAME)



NR 640277-02-04 CAPLUS

CN 4138-Quinoxalinone, 3-[(2,4-difluorophenyl)amino]-2-phenyl-

(CA INDEX NAME)



NR 640277-04-1 CAPLUS

CN 4138-Quinoxalinone, 3-[(3-chlorophenyl)amino]-2-phenyl-

(CA INDEX NAME)



NR 640277-07-2 CAPLUS

CN 4138-Quinoxalinone, 3-[(4-fluorophenyl)amino]-2-phenyl-

(CA INDEX NAME)



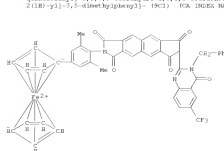
14 ANSWER 21 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 2007:330219 CAPLUS
 DOCUMENT NUMBER: 13934555
 TITLE: Inside compounds and their application in optical recording media
 INVENTOR(S): Ohtsuka, Akiyo; Shiozaki, Hiroyoshi; Ishida, Tetsuo; Tsubakura, Hisashi; Masawa, Tetsuo; Iseme, Koji; Kohbe, Tadashi; Ueno, Keiji; Iseme, Yoji; Nara, Ryosuke
 PATENT ASSIGNER(S): Material Chemicals, Inc., Japan
 SOURCE: PCT Int. Appl., 2003 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2002010407 | A1 | 20020101 | WO 2002-010939 | 20021002 |
| Me, Ad, Au, Al, Ar, At, Ag, As, Ba, Be, Bi, Br, Bz, Ca, Ce, Cl, Co, Cr, Cu, Cy, Da, De, Di, Dm, Do, Dr, Dy, Ec, Ed, Ee, Et, Eu, Fe, Ga, Ge, Gd, Gr, Hb, He, Hf, Hg, Hs, Ht, Hu, Hy, Ia, Ib, Ic, Id, Ie, If, Ig, Ih, Ij, Ik, Il, Im, In, Io, Ip, Ir, Is, It, Iu, Iv, Iw, Jb, Jc, Jd, Je, Jf, Jg, Jh, Ji, Jj, Jk, Jl, Jm, Jn, Jo, Jp, Jq, Jr, Js, Jt, Ju, Jv, Jw, Jx, Jy, Jz, Kb, Kc, Kd, Ke, Kf, Kg, Kh, Ki, Kj, Kl, Km, Kn, Ko, Kp, Kq, Kr, Ks, Kt, Ku, Kv, Kw, Kx, Ky, Kz, La, Lb, Lc, Le, Lf, Lg, Lh, Li, Lj, Lk, Lm, Ln, Lo, Lp, Lq, Lr, Ls, Lt, Lu, Lv, Lw, Ly, Lz, Mb, Mc, Md, Me, Mf, Mg, Mn, Mo, Mp, Ms, Mt, Mu, Mv, Mw, Mx, My, Mz, Nb, Nd, Ne, Nf, Ng, Nh, Ni, Nj, Nk, Nl, Nm, Nn, No, Np, Nq, Nr, Ns, Nt, Nu, Nv, Nw, Nx, Ny, Nz, Ob, Oc, Od, Oe, Of, Og, Oh, Oi, Oj, Ok, Ol, Om, On, Op, Os, Ot, Ou, Ov, Ow, Ox, Oy, Oz, Pb, Pc, Pd, Pe, Pf, Pg, Ph, Pi, Pj, Pk, Pl, Pm, Pn, Po, Pp, Pt, Pv, Pw, Px, Py, Pz, Qa, Qb, Qc, Qd, Qe, Qf, Qg, Qh, Qi, Qj, Qk, Ql, Qm, Qn, Qo, Qp, Qq, Qr, Qs, Qt, Qu, Qv, Qw, Qx, Qy, Qz, Ra, Rb, Rc, Rd, Re, Rf, Rg, Rh, Ri, Rj, Rk, Rl, Rm, Rn, Ro, Rp, Rq, Rs, Rt, Ru, Rv, Rw, Rx, Ry, Rz, Sa, Sb, Sc, Sd, Se, Sf, Sg, Sh, Si, Sj, Sk, Sl, Sm, Sn, So, Sp, Sq, Sr, Ss, St, Su, Sv, Sw, Sx, Sy, Sz, Ta, Tb, Tc, Td, Te, Tf, Tg, Th, Ti, Tj, Tk, Tl, Tm, Tn, To, Tp, Tq, Tr, Ts, Tu, Tv, Tw, Tx, Ty, Tz, Ub, Uc, Ud, Ue, Uf, Ug, Uh, Ui, Uj, Uk, Ul, Um, Un, Uo, Up, Uq, Ur, Us, Ut, Uv, Uw, Ux, Uy, Uz, Va, Vb, Vc, Vd, Ve, Vf, Vg, Vh, Vi, Vj, Vk, Vl, Vm, Vn, Vo, Vp, Vq, Vr, Vs, Vt, Vu, Vv, Vw, Vx, Vy, Vz, Wb, Wc, Wd, We, Wf, Wg, Wh, Wi, Wj, Wk, Wl, Wm, Wn, Wo, Wp, Wq, Wr, Ws, Wt, Wu, Wv, Ww, Wx, Wy, Wz, Xb, Xc, Xd, Xe, Xf, Xg, Xh, Xi, Xj, Xk, Xl, Xm, Xn, Xo, Xp, Xq, Xr, Xs, Xt, Xu, Xv, Xw, Xx, Xy, Xz, Yb, Yc, Yd, Ye, Yf, Yg, Yh, Yi, Yj, Yk, Yl, Ym, Yn, Yo, Yp, Yq, Yr, Ys, Yt, Yu, Yv, Yw, Yx, Yy, Yz, Zb, Zc, Zd, Ze, Zf, Zg, Zh, Zi, Zj, Zk, Zl, Zm, Zn, Zo, Zp, Zq, Zr, Zs, Zt, Zu, Zv, Zw, Zx, Zy, Zz | | | | |

14 ANSWER 21 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 JP 2002-244776 A 20020916
 JP 2002-246872 A 20020917
 EP 2002-777915 A3 20021002
 WO 2002-010939 W 20021002
 US 2004-493074 A3 20040419

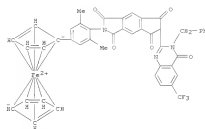
OTHER SOURCE(S): NABPAT 139,34555
 AB An optical recording medium contains in its recording layer at least one inside compound having a metalloene substitution group.
 IT 136516-20-8 136517-60-5 136518-82-3
 RI: MOA (Modifier or additive used) NSES (Uses) (metalloene-containing inside compound, optical recording media)

EN 516516-12-8 CAPLUS
 CN Ferrocene,
 [4-{7-[5,4-dihydro-4-oxo-3-(phenylmethyl)-6-(trifluoromethyl)-2-quinazolinyl]-5,6,7,8-tetrahydro-1,3,6,8-tetraazocine[5,6-b]indol-2(1H)-yl]-3,5-dimethylphenyl]- (FC3) (CA INDEX NAME)



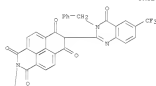
EN 516517-40-5 CAPLUS
 CN Ferrocene,
 [4-{6-[7,4-dihydro-4-oxo-3-(phenylmethyl)-6-(trifluoromethyl)-2-quinazolinyl]-7,6,7,8-tetrahydro-1,3,6,8-tetraazocine[5,6-b]indol-2(1H)-yl]-3,5-dimethylphenyl]- (FC3) (CA INDEX NAME)

14 ANSWER 21 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



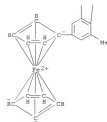
EN 516518-81-3 CAPLUS
 CN Ferrocene,
 [4-{7-[5,4-dihydro-4-oxo-3-(phenylmethyl)-6-(trifluoromethyl)-2-quinazolinyl]-7,6,7,8-tetrahydro-1,3,6,8-tetraazocine[5,6-b]indol-2(1H)-yl]-3,5-dimethylphenyl]- (FC3) (CA INDEX NAME)

PAGE 1-A



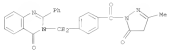
14 ANSWER 21 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

PAGE 2-A

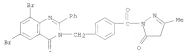


REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

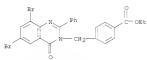
14 ANSWER 22 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 2002:862253 CAPLUS
 DOCUMENT NUMBER: 137(432216)
 TITLE: Synthesis and antimicrobial activity of some pyrazoline derivatives of 4(3H)-quinazolinones.
 AUTHOR(S): Parda, J.; Brarava, S. V.; Rao, M. K.; Rhanoy,
 Parda,
 CORPORATE SOURCE: C. S.
 SOURCE: Indian Institute of Pharmaceutical Sciences,
 Bangalore, 70 010, India
 SOURCE: Journal of the Indian Chemical Society [2002],
 79(10),
 853
 DOCUMENT TYPE: 0919-4522
 LANGUAGE: Indian Chemical Society
 LANGUAGE: English
 ABSTRACT: The synthesized version of the structure diagram on page 770 is given.
 IT 496050-58-1P 496050-55-0P
 RI: PRC Pharmacological activity; BPH (Synthetic preparation); HIGL Pharmacological study; PREP (Preparation)
 FROM: [Group of disubstituted pyrazoline deriva. of 4(3H)-quinazolinones
 (Bharum)]
 RI 496050-58-1 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)
 RI 496050-58-2 CAPLUS
 RI 4(3H)-Quinazolinone, 2-[[4-[[4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



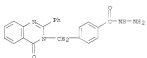
RI 496050-59-0 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



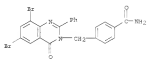
14 ANSWER 23 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ethyl ester (CA INDEX NAME)



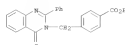
RI 496050-71-0 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



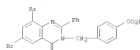
RI 496050-76-1 CAPLUS
 RI Benzanide, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



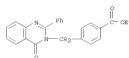
14 ANSWER 23 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 IT 496050-44-7P 496050-45-8P 496050-70-5P
 RI 496050-71-0 496050-75-0P 496050-N-1P
 RI: RCT (Reaction); BPH (Synthetic preparation); PREP (Preparation); RACT (Reaction or reaction)
 FROM: [Group of disubstituted pyrazoline deriva. of 4(3H)-quinazolinones
 (Bharum)]
 RI 496050-44-7 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



RI 496050-65-8 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



RI 496050-70-5 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



RI 496050-71-4 CAPLUS
 RI Benzoic acid, 4-[[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)carbonyl]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



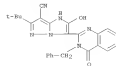
14 ANSWER 23 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 2002:827800 CAPLUS
 DOCUMENT NUMBER: 137(432216)
 TITLE: Yellow dye-forming coupler and silver halide photographic material
 INVENTOR(S): Shinada, Yasuhiko
 INVENTOR ASSIGNMENT(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 COINVENTOR(S):
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY NO. NUM. COMPT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| JP 200218444 | A | 20021031 | JP 2001-125012 | 20010423 |
| PRIORITY APPL. INFO. | | | JP 2001-125012 | 20010423 |

OTHER SOURCE(S):
 GI: NUMBER 137(432216)



AB The yellow coupler I [Q = nonmetal atoms to form N-containing heterocycle; R = substituents] and Ag halide photoc. material containing I are claimed.
 The releasing group of the coupler functions as a dye chromophore, and the coupler gives a dye with high mol. extinction coefficient and clear hue.
 IT 475910-88-4
 RI: TIM (Technical or engineered material use); USES (Uses)
 RI 475910-88-4 CAPLUS
 RI 1H-Indazole, 2-[6-pyrazole-7-carbonitrile, 3-[4,5-dihydro-4-oxo-2-(phenylmethyl)-2-quinazolinyl]-4-(1,1-dimethyl)-2-hydroxy- (CA INDEX NAME)



L4 ANSWER 24 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 20021792277 CAPLUS
 DOCUMENT NUMBER: 1371317823
 TITLE: Photoreactive coupler, silver halide photographic material, and manufacture of acetophenone dye
 INVENTOR(S): Yoshida, Shigeyo; Takeuchi, Kiyoshi; Shimada, Yasuhiro
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Intel. Property Info., 37 pp.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACCT. NUM. COUNT: 1
 PATENT: JPN2001-102014

PATENT NO. KIND DATE APPLICATION NO. DATE
 JPN 20021038 A 20021038 JP 2001-102014 20010370
 PRIORITY APPL. INFO.: JP 2001-102014 JP 2001-102014 20010370
 OTHER SOURCE(S): MARPAT 1371317823
 GI

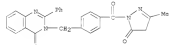


AB The coupler is 1 (Y = atoms comprising C and/or N atom forming 5- to 6-membered ring; Z = substituent; n = 0-4; X = substituent). The photoreactive material contains at least one coupler. The dye is manufactured by reacting 1 with p-phenylenediamine. The coupler showed improved hue and high molar absorption coefficient, the photoreactive material doing improved color development and light stability and the dye doing improved hue and storage stability.
 IT 44741-43-7
 RI: ZEN [Technical or engineering material use]; USES (Uses) (Isocoumarin derivative photoreactive yellow coupler)
 RI 44741-43-7 CAPLUS
 RI 14-744444(12,13,14,15)indazole[2,3-a]pyrazole-3-one,
 CH 3-[3,4-dihydro-4-oxo-3-[phenylmethyl]-2-quinazolinyl]- (CA INDEX NAME)

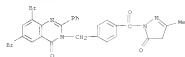
L4 ANSWER 23 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 20021775114 CAPLUS
 DOCUMENT NUMBER: 135151609
 TITLE: Synthesis and antimicrobial activity of some pyrazoline derivatives of 4(3H)-quinazolinones
 INVENTOR(S): Panda, J.; Srinivas, S. V.; Rao, M. E.; Bhanoji,
 PANDA,
 CORPORATE SOURCE: C. S.
 SOURCE: Indian Institute of Pharmaceutical Sciences,
 Bangalore, 760 010, India
 JOURNAL: J. Indian Chem. Soc. [2002], 79(9),
 779-782
 PUBLISHED: CSDEN; JICSM; ISSN: 0019-4522
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135151609

AB The present communication describes the synthesis and antimicrobial activity of some new
 6,8-disubstituted-2-[phenyl/methyl]-3-[[4-[[3-methyl-5-pyrazolyl]oxy]phenyl]methyl]-4(3H)-quinazolinones.
 IT 496050-59-9P 496050-59-9P
 RI: PAC (Pharmaceutical activity); SYN (Synthetic preparation); ECOL (Ecological study); PREP (Preparation)
 (Isopropyl of disubstituted pyrazoline deriv. of 4(3H)-quinazolinones
 from 2-substituted benzoxazinones and their antimicrobial activity)

RI 496050-59-9 CAPLUS
 CH 4(3H)-Quinazolinone, 3-[[4-[[4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-3-yl]oxy]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



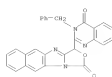
RI 496050-59-0 CAPLUS
 CH 4(3H)-Quinazolinone, 6,8-dichloro-3-[[4-[[4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-3-yl]oxy]phenyl]methyl]-2-phenyl- (CA INDEX NAME)



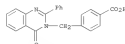
IT 496050-64-TP 496050-61-SP 496050-70-SP
 496050-71-4P 496050-75-OP 496050-76-1P
 RI: NCT (Nucleic acid); SYN (Synthetic preparation); PREP (Preparation); NACT

Hahte

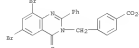
L4 ANSWER 24 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



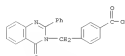
L4 ANSWER 25 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 (Reactant or reagent)
 from 2-substituted benzoxazinones and their antimicrobial activity)
 RI 496050-64-7 CAPLUS
 CH Benzoic acid, 4-[[4-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)



RI 496050-65-8 CAPLUS
 CH Benzoic acid, 4-[[4-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

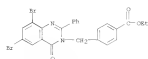


RI 496050-70-5 CAPLUS
 CH Benzoic acid, 4-[[4-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]-, ethyl ester (CA INDEX NAME)

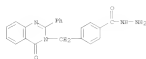


RI 496050-71-6 CAPLUS
 CH Benzoic acid, 4-[[4-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]-, ethyl ester (CA INDEX NAME)

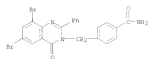
L4 ANSWER 25 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 496050-75-0 CAPLUS
 CH Benzoic acid, 4-((14,8-dioxo-2-phenyl-3(4R)-quinazolinyl)methyl)-, hydrazide
 (CA INDEX NAME)



RI 496050-76-1 CAPLUS
 CH Benzoic acid, 4-((14,8-dioxo-4-oxo-2-phenyl-3(4R)-quinazolinyl)methyl)-
 (CA INDEX NAME)

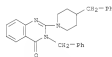


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR
 THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 26 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 495402-04-8 CAPLUS
 CH 4(1R)-Quinazolinone,
 3-(phenylmethyl)-2-(4-(phenylmethyl)-1-piperidinyl)-
 (CA INDEX NAME)



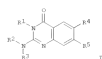
RI 495402-07-1 CAPLUS
 CH 4(1R)-Quinazolinone, 2-(4-methyl-1-piperidinyl)-3-(phenylmethyl)-
 (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR
 THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 26 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:543605 CAPLUS
 DOCUMENT NUMBER: 138106449
 TITLE: Solid-phase synthesis of quinazolin-4(3H)-ones with
 three-point diversity
 AUTHOR(S): Matsuoka, A. F.; Kikutsava, G. K.; Katsogi, S. K.;
 Kondo, R.
 CORPORATE SOURCE: Molecular Chemistry Division, Central Drug Research
 Institute, Lucknow, 226 003, India
 SOURCE: Tetrahedron Letters (1992), 43(12), 5579-5581
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138106449
 CI



AB A versatile method for the solid-phase synthesis of differentially
 substituted quinazolin-4(3H)-ones 1 (R1 = Et, Ph, FCH2; R2 = Bu, R3 =
 Me);

E2338 = N-methylpiperazine, 4-benzylpiperidine, morpholine; R4 = R5 = H,
 R4R5 = CH(CH3)2 was developed using immobilized arylquinadines. The
 latter was obtained by treating the amino group of polymer-linked
 anisoyl amide with isothiocyanates E2338 followed by coupling of
 resulting thioamides with secondary amines E2338. Under mild acidic
 conditions, these immobilized arylquinadines underwent
 cyclization/polymer
 matrix cleavage to give 1 in high yields and purities.

IT 495402-00-4p 495402-04-8p 495402-07-1p
 RI, STN (Synthetic preparation); PREP (Preparation)
 (solid-phase synthesis of (amino)quinazolinones with three points of
 diversity from anisoyl carboxylic acids, isothiocyanates, and
 secondary amines)

RI 495402-00-4 CAPLUS
 CH 4(3R)-Quinazolinone, 2-(4-morpholinyl)-3-(phenylmethyl)- (CA INDEX NAME)

L4 ANSWER 27 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:191848 CAPLUS
 DOCUMENT NUMBER: 136431638
 TITLE: Color photographic paper comprising azomethine dye
 forming complex
 INVENTOR(S): Uchida, Shigeki; Ogasawara, Jun; Takeuchi, Kiyoshi;
 Shimada, Yasuhiko; Deguchi, Yumiko
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 101 pp.
 CODEN: EPJCLM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNTRY: 2
 EXTENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|--|----------------------------------|
| JP 1197799 | A1 | 20000417 | EP 2001-121624 | 20010927 |
| RI AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, JP 1002107860 A 20000410 JP 1002114884 A 20000421 | | | JP 2000-294964 JP 2001-101418 JP 2000-294964 | 20000927 20010930 20000927 |
| PRIORITY APPL. INFO. | | | JP 2000-297609 JP 2001-101418 | A 20000928 A 20010930 |

OTHER SOURCE(S): NEXFT 136431638
 CI

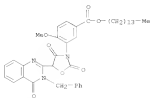


AB Disclosed is a photog. dye-forming coupler of the formula 1 (E = aryl,
 heterocyclic, -C(=O) group, in which W = nitrogen-containing
 heterocyclic
 group; E = aryl, heterocyclic, X = O, S, N=, in which R is a
 substituent, with the proviso that when E = aryl or heterocyclic group, X
 and Y are O, and when E = -C(=O) group, E is aryl). Also disclosed
 are
 a silver halide photog. paper that contains at least one dye-forming
 coupler of the formula 1 and a method for producing an azomethine dye
 using a compound of the formula 1.

IT 413241-77-5p
 RI, STN (Synthetic preparation); TFM (Technical or experimental material
 use); PREP (Preparation); USES (Uses)
 (photog. coupler; silver halide photog. light-sensitive material
 comprising dye-forming coupler)

RI 413241-77-5 CAPLUS
 CH Benzoic acid,
 3-[5-(4,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl)-2,4-

L4 ANSWER 27 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 diiso-3-oxazolidinyl]-4-methoxy-, tetraethyl ester (CA INDEX NAME)



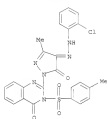
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 27 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:22250 CAPLUS
 DOCUMENT NUMBER: 1384553
 TITLE: Synthesis and antimicrobial activity of some
 5-pyrazolone derivatives
 AUTHOR(S): Salinas, A. S. E.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Qil's
 Branch, Al-Azhar University, Hare City, Egypt
 Al-Azhar Journal of Pharmaceutical Sciences (2001),
 25, 48-52
 SOURCE: CODEN: AJUPFF; ISSN: 1110-1444
 PUBLISHER: Al-Azhar University, Faculty of Pharmacy
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 1384553
 CI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

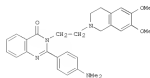
AB Reaction of pyrazolone 1 (X = R) with β -(p-phenylphenyl)acrylic acid and acrylonitrile afforded propionic acid derivative and (cyanomethyl)pyrazolone derivative resp. Condensation of thionocarbonylpyrazolone 7 (X = CHSH (II)) with orthoformic acid and Et cyanoacetate produced quinoxalones III and pyridazine derivs. Treatment of III with p-toluenesulfonyl chloride, phenylisothiocyanate, acrylonitrile and acetic anhydride yielded 3-substituted quinoxalones. Reaction of pyrazolone 11 with chloroacetic acid afforded thiazolones. IV.
 The structures of the new compds. were confirmed by elemental analyses, spectroscopic measurements, and chemical reactions. Some of the newly synthesized compds. showed interesting antibacterial activities in vitro.
 47723-23-1P
 IT RI: SPI (Synthetic preparation); PREP (Preparation)
 Preparation and antimicrobial activity of pyrazolones via cyclodehydration of (chlorophenyl)hydrazonoacetate with hydrazine and semicarbazide followed by modifications of N-substituents
 RI 47723-23-1 CAPLUS
 CI 11-Pyrazole-4,5-dione,
 1-[1,4-dihydro-3-[(4-methylphenyl)sulfonyl]-4-oxo-2-quinazolinyl]-3-methyl-, 4-[2-(2-chlorophenyl)hydrazono] (CA INDEX NAME)

L4 ANSWER 29 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

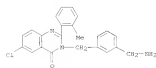
L4 ANSWER 29 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:11650 CAPLUS
 DOCUMENT NUMBER: 137163309
 TITLE: Studies on Quinoxalones as Dual Inhibitors of Pgp and MDR1 in Multidrug Resistance
 AUTHOR(S): Wang, Shouming; Hyder, Rashid; Pretzwell, Jan; Dapkinas, Emily; Milton, John; Hanson, Timothy C.; Dain, Ian; Dangerfield, Wendy; Chariton, Peter;
 Richard, David; Kory, Hassan; Stephane
 CORPORATE SOURCE: Department of Medicinal Chemistry, Kenova Ltd.,
 Slough, Berkshire, SL1 6BL, UK
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2002),
 12(4), 571-574
 CODEN: BMCLER; ISSN: 0960-594X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137163309
 CI



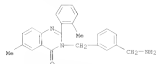
I

AB We have identified a series of quinoxalones analogs with potent dual inhibitory activities against both P glycoprotein (Pgp) and MDR1.
 Compound I exhibits equal potentiation activity in both assays and appears to be slightly more active than VC-710 in reversal of Pgp and MDR1 mediated drug resistance.
 IT 81144-93-4P
 RI: PIC (Pharmacological activity); SPI (Synthetic preparation); THU (Therapeutic use); BICOL (Biological study); PREP (Preparation); DEES (Dees)
 Quinoxalones analogs with dual inhibitory activities against P glycoprotein and MDR1
 RI 81144-93-4 CAPLUS
 CI 4178-Quinoxalones, 2-[4-(dimethylamino)phenyl]-3-(phenylmethyl)- (CA INDEX NAME)

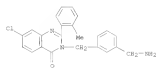
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-27-3 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(2-methylphenyl)- (CA INDEX NAME)

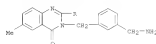


RI 332362-28-4 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(2-methylphenyl)- (CA INDEX NAME)

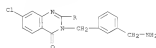


RI 332362-29-5 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-(2-methylphenyl)- (CA INDEX NAME)

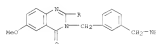
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-33-1 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(3-methylphenyl)- (CA INDEX NAME)

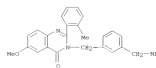


RI 332362-34-2 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-(3-methylphenyl)- (CA INDEX NAME)

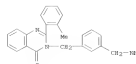


RI 332362-35-3 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-(4-methylphenyl)- (CA INDEX NAME)

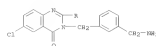
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-30-8 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-(2-methylphenyl)- (CA INDEX NAME)

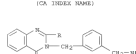


RI 332362-31-9 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(3-methylphenyl)- (CA INDEX NAME)

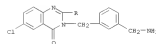


RI 332362-32-0 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(3-methylphenyl)- (CA INDEX NAME)

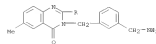
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-36-4 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(4-methylphenyl)- (CA INDEX NAME)

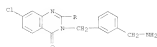


RI 332362-37-5 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

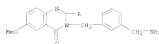


RI 332362-38-6 CAPLUS
 CN 4(1H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(4-methylphenyl)- (CA INDEX NAME)

14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 methylphenyl)- (CA INDEX NAME)



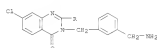
20 332362-79-7 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-[4-methylphenyl]- (CA INDEX NAME)



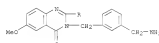
20 332362-40-0 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[4-methylphenyl]- (CA INDEX NAME)

14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

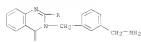
20 332362-47-2 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-[6-(1,1-dimethylethyl)phenyl]-4-methoxy- (CA INDEX NAME)



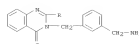
20 332362-44-4 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[4-(1,1-dimethylethyl)phenyl]-4-methoxy- (CA INDEX NAME)



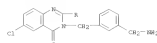
20 332362-45-5 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



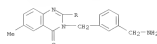
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



20 332362-41-3 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)

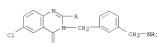


20 332362-42-2 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[4-(1,1-dimethylethyl)phenyl]-4-methyl- (CA INDEX NAME)

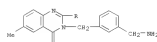


14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

20 332362-46-6 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-[3-chlorophenyl]- (CA INDEX NAME)

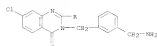


20 332362-47-7 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[3-chlorophenyl]-6-methyl- (CA INDEX NAME)

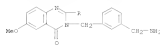


20 332362-48-8 CAPLUS
 CH 4(78)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-[3-chlorophenyl]- (CA INDEX NAME)

14 ANSWER 32 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)



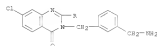
XX 332362-49-9 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-(3-chlorophenyl)-
 6-methoxy- (CA INDEX NAME)



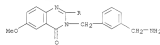
XX 332362-50-2 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-(3-chlorophenyl)-
 (CA INDEX NAME)

14 ANSWER 32 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)

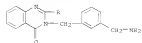
XX 332362-53-5 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(4-
 methoxyphenyl)- (CA INDEX NAME)



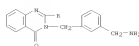
XX 332362-54-6 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-(4-
 methoxyphenyl)- (CA INDEX NAME)



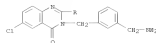
XX 332362-55-7 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-(4-methoxyphenyl)-
 (CA INDEX NAME)



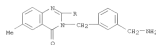
14 ANSWER 32 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)



XX 332362-51-3 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(4-
 methoxyphenyl)- (CA INDEX NAME)

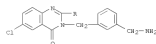


XX 332362-52-4 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-(4-methoxyphenyl)-
 6-methyl- (CA INDEX NAME)

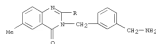


14 ANSWER 32 OF 84 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)

XX 332362-56-8 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-[2,2'-bithiophen]-
 5-yl-6-chloro- (CA INDEX NAME)

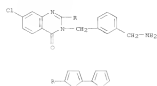


XX 332362-57-9 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-[2,2'-bithiophen]-
 5-yl-6-methyl- (CA INDEX NAME)

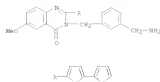


XX 332362-58-0 CAPLOS
 CN 41381-Quinazolinone,
 3-[[3-(aminomethyl)phenyl]methyl]-2-[2,2'-bithiophen]-
 5-yl-7-chloro- (CA INDEX NAME)

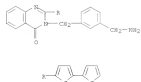
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



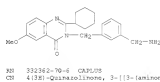
RU 332362-59-1 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-2-[2,2'-bithiophen]-5-yl-6-methoxy- (CA INDEX NAME)



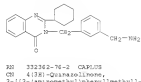
RU 332362-60-4 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-2-[2,2'-bithiophen]-5-yl-6-methoxy- (CA INDEX NAME)



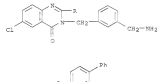
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RU 332362-70-6 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-cyclohexyl-4-methoxy- (CA INDEX NAME)

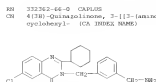


RU 332362-74-2 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[1,1'-biphenyl]-4-yl-6-chloro- (CA INDEX NAME)

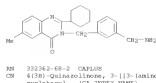


RU 332362-77-3 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[1,1'-biphenyl]-4-yl-6-methyl- (CA INDEX NAME)

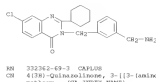
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RU 332362-87-3 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-cyclohexyl-4-methyl- (CA INDEX NAME)

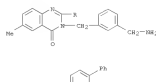


RU 332362-88-2 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-cyclohexyl-4-methyl- (CA INDEX NAME)

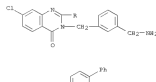


RU 332362-89-3 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-cyclohexyl-6-methoxy- (CA INDEX NAME)

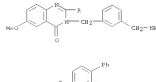
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RU 332362-78-4 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[1,1'-biphenyl]-4-yl-7-chloro- (CA INDEX NAME)

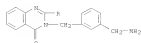


RU 332362-80-8 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[1,1'-biphenyl]-4-yl-6-methoxy- (CA INDEX NAME)

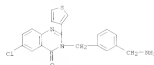


RU 332362-81-9 CAPLUS
 CN 4(3H)-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-[1,1'-biphenyl]-4-yl-6-methyl- (CA INDEX NAME)

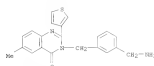
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
p1- (CA INDEX NAME)



RI 332362-82-2 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(3-thienyl)- (CA INDEX NAME)

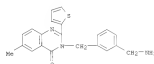


RI 332362-83-3 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(3-thienyl)- (CA INDEX NAME)

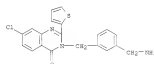


RI 332362-84-2 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(3-thienyl)- (CA INDEX NAME)

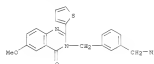
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-89-7 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(2-thienyl)- (CA INDEX NAME)

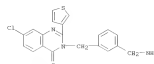


RI 332362-90-0 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-(2-thienyl)- (CA INDEX NAME)

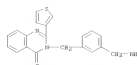


RI 332362-91-1 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-(2-thienyl)- (CA INDEX NAME)

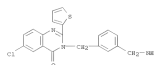
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 332362-95-3 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-2-(3-thienyl)- (CA INDEX NAME)

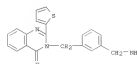


RI 332362-97-5 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(2-thienyl)- (CA INDEX NAME)

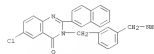


RI 332362-98-6 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(2-thienyl)- (CA INDEX NAME)

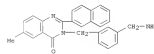
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



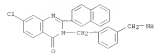
RI 332362-92-2 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-chloro-2-(2-naphthalenyl)- (CA INDEX NAME)



RI 332362-93-3 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methyl-2-(2-naphthalenyl)- (CA INDEX NAME)

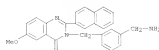


RI 332362-94-4 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-7-chloro-2-(2-naphthalenyl)- (CA INDEX NAME)

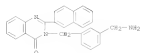


RI 332362-95-5 CAPLUS
CN 4181-Quinazolinone, 3-[[3-(aminomethyl)phenyl]methyl]-6-methoxy-2-(2-naphthalenyl)- (CA INDEX NAME)

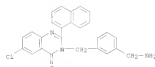
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



32 332362-36-6 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(1-naphthalenyl)-
(CA INDEX NAME)

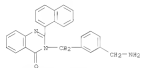


32 332362-97-7 CAPLUS
CN 4(38)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-6-chloro-2-(1-naphthalenyl)- (CA INDEX NAME)

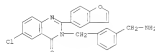


32 332362-98-5 CAPLUS
CN 4(38)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-6-methyl-2-(1-naphthalenyl)- (CA INDEX NAME)

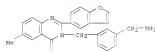
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



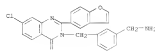
32 332363-07-2 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(5-benzofuranyl)-
6-methoxy- (CA INDEX NAME)



32 332363-09-3 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(5-benzofuranyl)-
6-methyl- (CA INDEX NAME)



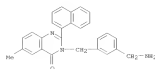
32 332363-09-4 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(5-benzofuranyl)-
7-chloro- (CA INDEX NAME)



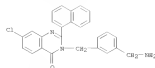
32 332363-10-7 CAPLUS

Habe

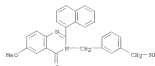
14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



32 332362-99-9 CAPLUS
CN 4(38)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-7-chloro-2-(1-naphthalenyl)- (CA INDEX NAME)



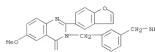
32 332363-00-5 CAPLUS
CN 4(38)-Quinazolinone, 3-[[2-(aminomethyl)phenyl]methyl]-6-methoxy-2-(1-naphthalenyl)- (CA INDEX NAME)



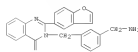
32 332363-01-6 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(1-naphthalenyl)-
(CA INDEX NAME)

14 ANSWER 32 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

32 332363-01-6 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(5-benzofuranyl)-
6-methoxy- (CA INDEX NAME)



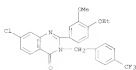
32 332363-11-8 CAPLUS
CN 4(38)-Quinazolinone,
3-[[2-(aminomethyl)phenyl]methyl]-2-(5-benzofuranyl)-
(CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

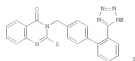
EN 267665-43-0 CAPLUS
 CN 4(3H)-Quinazolinone, 7-chloro-2-(4-ethoxy-3-methoxyphenyl)-3-[[4-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)

14 ANIML34 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

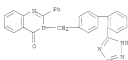


REFERENCE COURT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE EE
FORMAT

14 ANMERK 35 OF 84 CARLOS COPYRIGHT 1999 ACS ON STE
 ACCESSION NUMBER: 1999:010555 CARLOS
 DOCUMENT NUMBER: 131257512
 TITLE: Studies on quinoxaline-*N*,3-Synthetic and
 photophysical evaluation of 4(3R)-quinoxaline
 biphenyl tetraolates as angiotensin II antago
 nists. Chn. J. Med. J. (Chin. Lit. Med. Sci.) Chem.
 Feng-Chi; Huifeng, Ciyi O.
 CORPORATE SOURCE: Chinese Academy of Medicine, National
 Taiwan University, Taipei, 106, Taiwan
 SOURCE: Chinese Pharmaceutical Journal (Taipei) (1999),
 54(1),
 31-48
 CURREN; CHINESE ISBN: 1046-1015
 Pharmaceutical Society of Republic of China
 Journal
 English

[illegible]

14 ANSWER 35 OF 84 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)



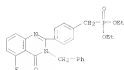
REFERENCE COURT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

14 ANIMER DE 64 C# 04 CASO COPYRIGHT2007 2005 ACS ON STN
 ACCESSION NUMBER: 1959:754149 CAS 13514840
 DOCUMENT NUMBER: 13514840
 One-pot synthesis of substituted
 QUINAZOLIN-4(1H)-ONE on microwave irradiation
 AUTHORS(S):
 MOHAMMAD, HURFAT; MOHAMMAD, MOHAMMED S.
 CORPORATE SOURCE: Chemistry Department, Shaheed Suhreahi University,
 Tahir, Jhelum, Pakistan
 Journal of Chemical Research, Synopses (1997), (11),
 701-702
 QUINAZOLIN-4(1H)-ONE; ISSN: 0108-2342
 Royal Society of Chemistry
 DOCUMENT TYPE: Review
 LANGUAGE: English
 AUTHOR(S):
 AB Synthesis of the title compds. by microwave irradiation of anthranic acid,
 urea, and formaldehyde for an hour in one pot under microwave
 irradiation takes place in a few minutes.
 JT 1959:754149
 NL STN (Synthetic preparation); PREP (Preparation)
 one-pot preparation of quinazolin-4(1H)-ones under microwave
 irradiation
 REF 1959:754149 CAS13514840
 NL STN-Quinazolin-4(1H)-ones; 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



REFERENCE COURT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

- L4 ANSWER 39 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
 RI: INF (Industrial manufacture); SPM (Synthetic preparation); PREP (Preparation)
 Process for producing quinazolin-4-one derivative, by cyclodehydration
 RI: 173018-48-9 CAPLUS
 CH Phosphonic acid, [[4-[[5-fluoro-3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]phenyl]methyl]], diethyl ester (ECI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

- L4 ANSWER 40 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM
 ACCESSION NUMBER: 1997-44761 CAPLUS
 DOCUMENT NUMBER: 126159877
 ORIGINAL REFERENCE NO.: 138-11757a, 11762a
 TITLE: Preparation of benzenesulfonyl tetrahydroquinolines, indolines, -lactams, and related compounds as inhibitors of phosphodiesterase IV and tumor necrosis factor
 INVENTOR(S): Mustafa, Johnny Dyke, Hazel Joan; Massey, Robert James; Lowe, Christopher
 PATENT ASSIGNOR(S): Chiroscience Limited, UK
 SOURCE: PCT Int. Appl., 41 pp.
 COORD: 971020
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

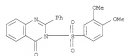
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|---|------|----------|-----------------|------------|
| WO 961611 | A1 | 19961111 | UK 1996-GB103 | 19960510 |
| Wt AU, AN, AT, AD, AE, AR, AU, BE, BY, CA, CH, CN, DE, DK, ES, FI, FR, GB, GR, HU, IL, JP, KR, MX, NZ, PL, PT, RU, SE, SG, SI, SK, TH, TR, US, UA, UK, YU, ZA | | | | |
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| AG 965772 | A | 19961125 | AD 1996-5772 | 19960510 |
| AG 965799 | A | 19970500 | ZA 1996-7999 | 19960510 |
| BR 952812 | A | 19960317 | BR 1996-436672 | 19960510 |
| PRIORITY APPL. INFO. | | | GB 1995-10184 | A 19950519 |
| | | | GB 1995-20419 | A 19951006 |
| | | | WO 1996-GB1303 | W 19960510 |

OTHER SOURCE(S): MARPAT 126159877
 GI



- AB Title compds. [I] R1 = (substituted) alkyl, cycloalkyl; R2 = (substituted) alkyl; R3, R4 = (substituted) 3-7 membered heterocyclic which is fused to a carbocyclic, aromatic, heterocyclic or heteroatom.
 (Inq) with provision], were prepared as inhibitors of phosphodiesterase IV and tumor necrosis factor (no data). Thus, 1,2,3,4-tetrahydroquinolines,

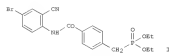
- L4 ANSWER 41 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM (Continued)
 3,4-dimethoxybenzenesulfonyl chloride, and BnH were stirred 24 h in CHCl₃ to give Bn(1,4-dimethoxybenzenesulfonyl)-1,1,7,4-tetrahydroquinoline.
 IT 261844-11-39
 RI: BAC (Biological activity or effector, except address); BBU (Biological study, unclassified); SPM (Synthetic preparation); TSP (Therapeutic use); BUC (Biological study); PREP (Preparation); USES (Uses)
 Preparation of benzenesulfonyl tetrahydroquinolines, -indolines, -lactams, and related compounds as inhibitors of phosphodiesterase IV and tumor necrosis factor
 RI: 261844-11-39 CAPLUS
 CH 4138-Quinazolinone, 2-[[3,4-dimethoxyphenyl]sulfonyl]-2-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

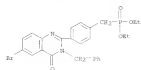
FORMAT

- L4 ANSWER 42 OF 84 CAPLUS COPYRIGHT 2009 ACS on STM
 ACCESSION NUMBER: 1994-141887 CAPLUS
 DOCUMENT NUMBER: 124133969
 ORIGINAL REFERENCE NO.: 12440381a, 40384a
 TITLE: Synthesis and Lipoplipidemic Activities of Novel 2-[4-[(Diethoxyphosphoryl)methyl]phenyl]quinazolinones and 4(3R)-quinazolinones
 AUTHOR(S): Kashiwagi, Nakamura, Shimoyu Nagao, Karashi; Yoshitatsu, Harada; Tsuda, Toshikiko
 NUTRITION Research Institute, Otsuka Pharmaceutical Factory Inc., Maruto, 772, Japan
 SOURCE: Journal of Medicinal Chemistry (1996), 39(7), 1433-7
 COORD: JMCN93; JSM: 0022-2625
 AMERICAN Chemical Society
 PUBLISHER: Journal
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

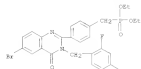


- AB The novel compound NO-1886, 4-[[diethoxyphosphoryl]methyl]-N-(4-bromo-2-cyanophenyl)benzamide (I), a hypolipidemic agent which appears to increase lipoprotein lipase activity in rats. Various analogs of NO-1886 were synthesized to study the structure-activity relation of this hypolipidemic comp. A novel series of quinazolinones and 4(3R)-quinazolinones were prepared by cyclization of NO-1886 derivative. Derive bearing a 4-[[diethoxyphosphoryl]methyl]phenyl group at the 3-position were found to lower triglyceride and total cholesterol levels. In accord with the decrease in log P, quinazolinones and 4(3R)-quinazolinones showed good absorption and hypolipidemic activity. When the quinazolinones ring system is substituted at positions 6 and 7 with methoxy groups, increased hypolipidemic activity was observed. The highest hypolipidemic activity was observed when the 3-position was substituted by a Me or benzyl group.
 IT 173018-57-48 173018-54-7 173018-51-48,
 2-[4-[[diethoxyphosphoryl]methyl]phenyl]-3-benzyl-4,7-dimethoxy-4(3R)-quinazolinone
 RI: PREP (Preparation); SPM (Synthetic preparation); TSP (Therapeutic use); BUC (Biological study); PREP (Preparation); USES (Uses)
 Synthesis and hypolipidemic activities of novel 2-[4-[[diethoxyphosphoryl]methyl]phenyl]quinazolinones and 4(3R)-quinazolinones
 RI: 173018-57-4 CAPLUS

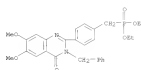
14 ANSWER 41 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 CH Phosphoric acid, [[4-[6-bromo-3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]phenyl]methyl]-, diethyl ester (9C1) (CA INDEX NAME)



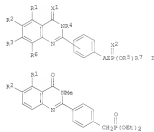
20 177018-54-7 CAPLUS
 CH Phosphoric acid, [[4-[3,4-dihydro-6,7-dimethoxy-4-oxo-3-(phenylmethyl)-2-quinazolinyl]phenyl]methyl]-, diethyl ester (9C1) (CA INDEX NAME)



20 177018-61-6 CAPLUS
 CH Phosphoric acid, [[4-[3,4-dihydro-6,7-dimethoxy-4-oxo-3-(phenylmethyl)-2-quinazolinyl]phenyl]methyl]-, diethyl ester (9C1) (CA INDEX NAME)



14 ANSWER 42 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



AS The title compds. I [N1, N2, N3 and N6 represent each independently hydrogen, lower alkyl, halogen, nitro, etc.]; N4 represents Ph, lower alkyl, phenylalkyl, etc.; N5 represents lower alkyl; N7 represents lower alkyl, hydroxy, Ph, or phenylated lower alkyl or lower alkylphenyl, whereas the Ph group may be halogenated; N1 and N2 represent each oxygen or sulfur; A represents oxygen or a single bond, and B represents lower alkylene] are prepared The title compound II [N1 = F, N2 = H] at 100 mg/kg

orally decreased blood glucose in rats by 50%. The title compound II [N1 = F, N2 = H] at 100 mg/kg orally decreased plasma triglyceride in rats by 35%.

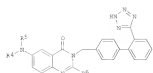
IT 177018-48-39 177018-53-69 177018-54-79
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 177018-66-39 177018-71-49

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L4 ANSWER 44 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 19951420333 CAPLUS
 DOCUMENT NUMBER: 122131564
 ORIGINAL REFERENCE NO.: 122132029, 15723a
 TITLE: 6-Amino-3-(biphenylmethyl)quinazolinones as angiotensin II antagonists
 INVENTOR(S): De Lazzio, Stephen E.; Oliska, Thomas W.; Greenlee, William E.; Chakravarty, Prasan K.; Patchett, Arthur A.
 PATENT ASSIGNOR(S): Merck and Co., Inc., USA
 SOURCE: U.S., 37 pp. Cont. of U.S. Ser. No. 912,458, abandoned.
 COUNTRY: US/AM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| US 518094 | A | 19950131 | US 1994-222145 | 19940404 |
| PRIORITY APPL. INFO. | | | US 1993-465399 | 19930206 |
| | | | US 1992-912458 | 19920713 |

OTHER SOURCE(S): MEDPAT 122131564
 GI

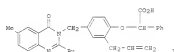


AS Novel substituted 6-aminoquinazolinones I (R4 = e.g., benzyl, Bu, Pr, Et
 = e.g., CO2Me, iso, CO2Me, CO2Pr; R5 = e.g., Bu, Pr) are useful as angiotensin II antagonists. In an antihypertensive screening, I exhibited an activity of IC50 < 10 nM, thereby demonstrating and confirming utility as AII antagonists. Pharmaceutical formulations were given.
 IT 156484-44-39 150484-41-09
 RI: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)
 (6-amino-3-(biphenylmethyl)quinazolinone as angiotensin II

L4 ANSWER 45 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 1994192183 CAPLUS
 DOCUMENT NUMBER: 121526789
 ORIGINAL REFERENCE NO.: 12152994, 13902a
 TITLE: Quinazolinones substituted with phenoxypheylacetic acid derivatives for treatment of cardiovascular disorders
 INVENTOR(S): Bagley, Scott M.; Chakravarty, Prasan K.; Chen, Anna; Dhawan, Rajni J.; Fitch, Kenneth J.; Greenlee, William J.; Hayler, Elizabeth M.; Tata, James K.; Walsh, Thomas F.; Williams, David L., Jr.
 PATENT ASSIGNOR(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 127 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

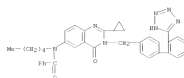
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 9412139 | AL | 19940929 | MO 1994-028834 | 19940316 |
| Me, AC, AB, BG, BR, CH, CN, CU, FI, HU, JP, KR, MX, NL, NO, NZ, PL, PT, SE, SG, SI, SK, TH, TR, UA, US, US | | | | |
| US 5401745 | A | 19941011 | US 1993-33595 | 19930319 |
| US 5401399 | A | 19941011 | US 1994-61399 | 19940316 |
| PRIORITY APPL. INFO. | | | US 1993-33595 | 19930319 |
| | | | MO 1994-028834 | 19940316 |

OTHER SOURCE(S): MEDPAT 121526789
 GI

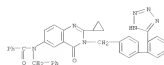


AS The title compds. have endothelin antagonist activity and are therefore useful in treating cardiovascular disorders, such as hypertension, postischemic renal failure, vasospasm, cerebral and cardiac ischemia, myocardial infarction, inflammatory diseases, Raynaud's disease, endotoxemia, shock, and asthma. Thus, the compds. inhibited endothelin-stimulated phosphatidylinositol hydrolysis in rat uterus or lung slices or at cloned human endothelin receptors expressed in CHO cells, with an IC50 of 500 nM: 2-Methyl-3-[(4-[(1-oxo-2-phenyl)ethyl]methoxy)-3-allylphenyl]methyl-6-methylquinazolin-4(3H)-one (I) was prepared in 8 steps.
 Including preparation of 2-benyl-6-methylquinazolin-4(3H)-one from 2-amino-3-biphenylacetic acid and valeryl chloride and its condensation

L4 ANSWER 44 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 156484-44-9 CAPLUS
 DOCUMENT NUMBER: 121526789
 ORIGINAL REFERENCE NO.: 12152994, 13902a
 TITLE: Quinazolinones substituted with phenoxypheylacetic acid derivatives for treatment of cardiovascular disorders
 INVENTOR(S): Bagley, Scott M.; Chakravarty, Prasan K.; Chen, Anna; Dhawan, Rajni J.; Fitch, Kenneth J.; Greenlee, William J.; Hayler, Elizabeth M.; Tata, James K.; Walsh, Thomas F.; Williams, David L., Jr.
 PATENT ASSIGNOR(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 127 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

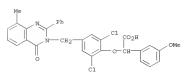


RI: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)
 (quinazolinone substituted with phenoxypheylacetic acid deriv. for treatment of cardiovascular disorders)

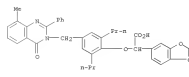


REFERENCE COUNT: 0 THERE ARE 0 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 45 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 156484-44-9 CAPLUS
 DOCUMENT NUMBER: 121526789
 ORIGINAL REFERENCE NO.: 12152994, 13902a
 TITLE: Quinazolinones substituted with phenoxypheylacetic acid derivatives for treatment of cardiovascular disorders
 INVENTOR(S): Bagley, Scott M.; Chakravarty, Prasan K.; Chen, Anna; Dhawan, Rajni J.; Fitch, Kenneth J.; Greenlee, William J.; Hayler, Elizabeth M.; Tata, James K.; Walsh, Thomas F.; Williams, David L., Jr.
 PATENT ASSIGNOR(S): Merck and Co., Inc., USA
 SOURCE: PCT Int. Appl., 127 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

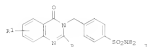


RI: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); BIO (Biological study); PREP (Preparation); USES (Uses)
 (quinazolinone substituted with phenoxypheylacetic acid deriv. for treatment of cardiovascular disorders)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

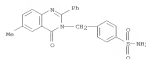
L4 ANSWER 46 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1994:157538 CAPLUS
 DOCUMENT NUMBER: 121:179338
 ORIGINAL REFERENCE NO.: 121:126134, 23414a
 TITLE: Synthesis of some new 4(3H)-quinazolinones as potential anticonvulsants
 AUTHOR(S): Gassan, Abdul-Khader El-Hassan; Barakat, Maher
 EL-Sayed
 COORDINATE SOURCE: Dep. Pharm. Chem., Fac. Pharm. Al-Azhar Univ., Cairo, Egypt
 SOURCE: Saudi Pharmaceutical Journal (1994), 2(1), 21-31
 COUNTRY: SAUDI ARAB; ISSN: 1319-0164
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CC



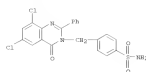
A8 Condensation of various 4R-3,4-benzoxazin-4-ones with homorufanilamide afforded some new derivs. of 2-[9-sulfamoylbenzyl]-4(3H)-quinazolinone 1 (R = Me, Et, Pr, Ph, HOC2H5, R1 = H, Et, Cl, Me, C2H5). Some o-aminde-9-(9-sulfamoylbenzyl)benzimidazoles were isolated as reaction intermediates. Structures of the newly synthesized compds. were confirmed by IR, ¹H-NMR, MS and elemental analyses. Several 1 exhibited good anticonvulsant effects against pentylmetrazol-induced convulsions in mice. Compound 1 (R = Me, R1 = 6-Me) was 2.33 times as potent as phenobarbital.

By 17, 18-NO, NO and elemental analyses. Several 1 exhibited good anticonvulsant effects against pentylmetrazol-induced convulsions in mice. Compound 1 (R = Me, R1 = 6-Me) was 2.33 times as potent as phenobarbital.
 IT 157833-96-Q 157833-97-18
 R1 RAC (Biological activity or effector, except adrenergic); R80 (Biological)
 R100, unclassified); SPM (Synthetic preparation); T80 (Therapeutic use); R10L (Biological study); P02P (Preparation); USES (Uses)
 Preparation of, as anticonvulsant
 R2 157833-96-Q CAPLUS
 CH Benzimidazole.
 4-[4-methyl-4-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)

L4 ANSWER 46 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



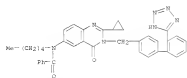
RH 157833-97-1 CAPLUS
 CH Benzimidazole, 4-[16,8-dichloro-6-oxo-2-phenyl-3(4H)-quinazolinyl]methyl]- (CA INDEX NAME)



L4 ANSWER 47 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1993:155691 CAPLUS
 DOCUMENT NUMBER: 119:156691
 ORIGINAL REFERENCE NO.: 119:14665a, 3466a
 TITLE: Substituted quinazolinones as neurotensin antagonists useful in the treatment of CNS disorders
 INVENTOR(S): Chakravarty, Prasann K.; Nayini, L. M.; Ramesh, Richard
 PATENT ASSIGNOR(S): W. Menck and Co., Inc., USA
 SOURCE: U.S., 18 pp.
 COUNTRY: US/USAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

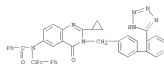
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 524454 | A | 19930420 | US 1992-826706 | 19920214 |

PRIORITY APPL. INFO.:
 OTHER SOURCE(S): NAL/PAT 119:194691
 A8 Substituted quinazolinones (Marush shown) are useful for treating central nervous system (CNS) disorders, e.g. psychoses, depression, cognitive dysfunction, anxiety, tardive dyskinesia, drug dependence, panic attack, and mania. The compds. had IC50 <50nM in a neurotensin binding assay using human frontal cortex.
 IT 156484-44-9 156484-45-0
 R1, R2OL (Biological study)
 A8 Neurotensin antagonist, for treating central nervous system disorders
 R2 156484-44-9 CAPLUS
 CH Benzamide, N-[2-cyclopropyl-3,4-dihydro-4-oxo-3-[(2'-[2H-tetrazol-5-yl][1,1'-biphenyl]-4-yl)methyl]-6-quinazolinyl]-N-phenylmethyl]- (CA INDEX NAME)



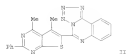
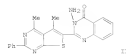
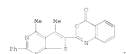
R2 156484-45-0 CAPLUS
 CH Benzamide, N-[2-cyclopropyl-3,4-dihydro-4-oxo-3-[(2'-[2H-tetrazol-5-yl][1,1'-biphenyl]-4-yl)methyl]-6-quinazolinyl]-N-phenylmethyl]- (CA INDEX NAME)

L4 ANSWER 47 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



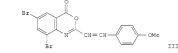
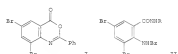
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.
 FORMAT

14 ANSWER 49 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1992:65124 CAPLUS
 DOCUMENT NUMBER: 117125124
 ORIGINAL REFERENCE NO.: 117435134, 435184
 TITLE: Some reactions with
 6-carboxymethylthio-2-phenyl-5-acetylpyrazinidine
 AUTHOR(S): El-Kabbas, R.; Rayoumy, B. E.; Asay, M. G.;
 El-Mekawy, A.; Younis, Gh.
 CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt
 SOURCE: Egyptian Journal of Pharmaceutical Sciences (1992),
 32(1-2), 415-26
 CODEN: EJPSDH; ISSN: 0361-5048
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CHEMA SOURCE(S): CASREACT: 117:251724
 GI:

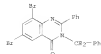


AB [Thienopyrazinidinyl]benzoxazinone I was prepared. Hydrolysis of I gave
 the [thienopyrazinidinyl]quinazolinone II. The
 6-(carboxymethylthio)pyrazinidinyl-2-phenyl-5-acetylpyrazinidine III was also prepared
 IT 198435-16-1P
 EL SPB [Synthetic preparation]; PREP (Preparation)
 [Preparation of]
 XE 198435-16-1 CAPLUS
 CH 4158-Quinazolinone,
 2-(4,5-dimethyl-2-phenylthieno[2,3-d]pyrazinidin-6-yl)-
 3-(phenylamino)- (CA INDEX NAME)

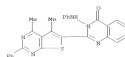
14 ANSWER 49 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1992:59145 CAPLUS
 DOCUMENT NUMBER: 117125125
 ORIGINAL REFERENCE NO.: 117330474, 330504
 TITLE: The role of steric and electronic factors on the mode
 of reaction of amines with 2-substituted
 6,8-dibromo-2,3-benzoxazin-4-one
 AUTHOR(S): Iemai, M.; Pekry, Momen, Abdel; El-Khamry, A.;
 Abdel-Kamid, Nada A.; Elmar, Sami A.
 CORPORATE SOURCE: Fac. Sci., Assiut Univ., Assiut, Egypt
 SOURCE: Egyptian Journal of Chemistry (1991), 32(6), 493-60
 CODEN: EJCHD; ISSN: 0361-0422
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI:



AB Dibromophenylbenzoxazinone I reacts with NH2 (R = Me, Et, CH2Ph,
 CH2C2H5, 4-MeC6H4, etc.) to give benzamides II. The reaction of I with
 morpholine and piperidine also gave the corresponding benzamides.
 [Methoxyethyl]-substituted benzoxazinone III, where the steric effect
 around the 2-position is highly diminished, also gave the benzamide when
 reacted with amines.
 IT 143749-61-3P
 EL SPB [Synthetic preparation]; PREP (Preparation)
 [Preparation of]
 XE 143749-61-3 CAPLUS
 CH 4158-Quinazolinone, 6,8-dibromo-2-phenyl-3-(phenylmethyl)- (CA INDEX
 NAME)

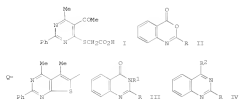
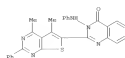


14 ANSWER 49 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



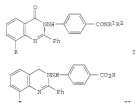
L4 ANSWER 50 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1992:151703 CAPLUS
 DOCUMENT NUMBER: 116151703
 ORIGINAL REFERENCE NO.: 11615677a, 25680a
 TITLE: Reactions with
 6-carboxyethylthio-2-phenyl-5-acetylpyridine
 AUTHOR(S): El-Sabbah, Said; Nagayem, Haneh K.; Asay, M. G.;
 Yonail, S.
 CORPORATE SOURCE: Fac. Sci., Saganos Univ., Saganos, Egypt
 SOURCE: Polish Journal of Chemistry (1991), 65(5-6), 1059-64
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

L4 ANSWER 50 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



AB Treating the title compound I sequentially with SOCl₂, 2-BNCE4CO₂H in AcOH, and Ac₂O gave carbobenzoxyethylthiopyridine II (R = Q). Cyclodehydration of II with aromatic amines, hydrazine, NH₂ and glycine gave quinazolinones III (R = Ph, C₆H₄-6, C₆H₄-4, NEt₂, NHPh, CH₂CO₂H, R). Calculation of III (R = R) with PC-1053 led to a number of quinazolinylthiopyridine derivative. e.g., IV (R = NEt₂, NHPh, NHCH₂Ph, NHC(CH₃)₂CO₂CH₃), via substitution of IV (R = Cl) and in some cases condensation with aldehydes or acylation with acid chlorides.
 IT 129416-16-1P
 RI: SM (Synthetic preparation); PREP (Preparation)
 preparation of
 RI 129416-16-1 CAPLUS
 CH 41381-Quinazolinone,
 2-[4-(4-ethyl-2-phenylthio-1,3-dipyrindin-6-yl)-3-phenylamino]- (CA INDEX NAME)

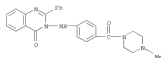
L4 ANSWER 51 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1991:10035 CAPLUS
 DOCUMENT NUMBER: 11460035
 ORIGINAL REFERENCE NO.: 1141043a, 1044a
 TITLE: Synthesis and pharmacological screening of
 2-phenyl-3-[4-(N,N-disubstituted
 carbonylphenylamino)-3-substituted-4(3H)-
 quinazolinone
 AUTHOR(S): Nigam, Atul; Saxena, V. K.; Chowdhury, S. R.;
 CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226 007, India
 SOURCE: Indian J. Pharm. 1989, 27(3), 149-71
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 11460035
 GI



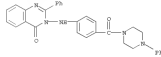
AB Twelve new title compounds. I (R = H, R₁ NR1R₂ = morpholine, piperidine, 4-methylpiperazine, 4-phenylpiperazine, N(CH₂CH₂CO₂H)₂, NR₂) were prepared by reacting acid II (R = H, R₁ with SOCl₂, followed by condensation with secondary amine. I were tested for central nervous system (CNS) and antiinflammatory activity. I (R = H, NR1R₂ = morpholine, piperidine, N(CH₂CH₂CO₂H)₂) were CNS stimulants. Other I (R = R₁) were CNS depressants. I (R = R₁) were CNS stimulants. Some I also showed antiinflammatory activity.

IT 131604-12-1P 131604-13-2P 131604-15-4P
 RI: SM (Synthetic preparation); PREP (Preparation)
 preparation and central nervous system depressant and
 antiinflammatory
 activity of:
 RI 131604-12-1 CAPLUS
 CH 41381-Quinazolinone,
 3-[[4-(4-methyl-1-piperazinyl)carbonylphenylamino]-2-phenyl-3-phenyl]- (CA INDEX NAME)

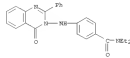
L4 ANSWER 51 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 131604-13-2 CAPLUS
 CH 41381-Quinazolinone, 2-phenyl-3-[[4-(4-phenyl-1-piperazinyl)carbonylphenylamino]- (CA INDEX NAME)



RI 131604-15-4 CAPLUS
 CH Benzamide, N,N-diethyl-4-[[4-oxo-2-phenyl-3(4H)-quinazolinyl]amino]- (CA INDEX NAME)



IT 131604-10-3P 131604-11-0P 131604-14-3P
 131604-16-5P 131604-17-0P 131604-18-7P
 131604-19-0P 131604-20-1P 131604-21-2P
 RI: SM (Synthetic preparation); PREP (Preparation)
 preparation and central nervous system stimulant and antiinflammatory
 activity of:
 RI 131604-10-3 CAPLUS
 CH 41381-Quinazolinone,
 3-[[4-(4-morpholinyl)carbonylphenylamino]-2-phenyl-3-phenyl]- (CA INDEX NAME)

L4 ANSWER 51 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

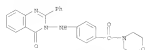


FIG 111604-13-6 CAPLUS
 CH 4(18)-Quinazolinone,
 2-phenyl-3-[[4-(1-piperidinyl)carbonyl]phenyl]amino]-
 (CA INDEX NAME)

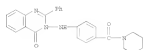


FIG 111604-14-3 CAPLUS
 CH Benzanide, N,N-bis[2-(hydroxyethyl)-4-[[4-oxo-2-phenyl-3-(4H)-quinazolinyl]amino]- (CA INDEX NAME)

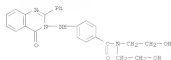
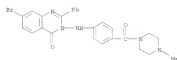


FIG 111604-16-3 CAPLUS
 CH 4(18)-Quinazolinone, 7-bromo-3-[[4-[[4-methyl-1-piperazinyl]carbonyl]phenyl]amino]-2-phenyl- (CA INDEX NAME)



L4 ANSWER 52 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

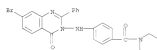
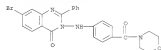


FIG 111604-21-2 CAPLUS
 CH 4(18)-Quinazolinone,
 7-bromo-3-[[4-[[4-morpholinyl]carbonyl]phenyl]amino]-2-phenyl- (CA INDEX NAME)



IT 111604-22-3P 111604-23-6P
 Kls SPB (Synthetic preparation); PREP (Preparation)
 (Preparation and sequential conversion to acid chloride and condensation with secondary amine)

FIG 111604-22-3 CAPLUS
 CH Benzoic acid, 4-[[4-oxo-2-phenyl-3-(4H)-quinazolinyl]amino]- (CA INDEX NAME)

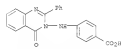
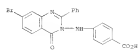


FIG 111604-23-4 CAPLUS
 CH Benzoic acid, 4-[[7-bromo-4-oxo-2-phenyl-3-(4H)-quinazolinyl]amino]- (CA INDEX NAME)



L4 ANSWER 53 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

FIG 111604-17-4 CAPLUS
 CH 4(18)-Quinazolinone, 7-bromo-2-phenyl-3-[[4-[[4-phenyl-1-piperazinyl]carbonyl]phenyl]amino]- (CA INDEX NAME)

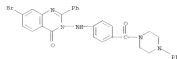


FIG 111604-18-7 CAPLUS
 CH Benzanide, 4-[[7-bromo-4-oxo-2-phenyl-3-(4H)-quinazolinyl]amino]-N,N-bis[2-(hydroxyethyl)- (CA INDEX NAME)

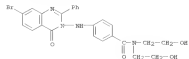


FIG 111604-19-8 CAPLUS
 CH Benzanide, 4-[[7-bromo-4-oxo-2-phenyl-3-(4H)-quinazolinyl]amino]-N,N-bis[2-(hydroxyethyl)- (CA INDEX NAME)

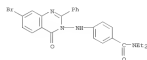


FIG 111604-20-1 CAPLUS
 CH 4(18)-Quinazolinone, 7-bromo-2-phenyl-3-[[4-[[4-1-piperidinyl]carbonyl]phenyl]amino]- (CA INDEX NAME)

L4 ANSWER 52 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 119142699 CAPLUS
 DOCUMENT NUMBER: 11442699
 ORIGINAL REFERENCE NO.: 1147435a, 743a
 SYNTHESIS AND EFFECT OF GAMMA IRRADIATION ON SOME NEW 6,8-DICHLORO-4-(3H)-QUINAZOLINONES OF BIOLOGICAL INTEREST
 AUTHOR(S): Azzam, Y. A.; Mohamed, Y. A.; Amin, N. Z.; Ghorab, N. M.
 CORPUSCULE SOURCE: Fae. Sci., Al-Azhar Univ., Cairo, Egypt
 SOURCE: Current Release (1999), 58(12), 1231-4
 CODING: CAPLUS: ISBN: 0011-3991
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:42699
 GI



JB Condensation of benzoquinone 1 (X = O) with NMB gave quinazolinone 1 (X = NH2) (II). Reactions of II with acid anhydrides, PClO₅, PClO₃, aromatic aldehydes etc. are reported. Antibacterial activity of some of the synthesized compounds is reported.

IT 111618-01-5P 111618-02-0P 111618-03-7P
 111346-12-8P

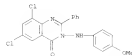
Kls BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPB (Synthetic preparation); EPOL (Ecological study); PREP (Preparation)
 (Preparation and antibacterial activity of)

FIG 111318-01-5 CAPLUS
 CH 4(18)-Quinazolinone, 6,8-dichloro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)

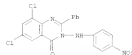


FIG 111318-02-6 CAPLUS
 CH 4(18)-Quinazolinone, 6,8-dichloro-3-[[4-methoxyphenyl]amino]-2-phenyl-

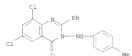
14 ANSWER 13 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
(CA INDEX NAME)



RI 111318-83-1 CAPLUS
CI 4138-Quinazolinone, 6,8-dichloro-2-[(4-nitrophenyl)amino]-2-phenyl- (CA INDEX NAME)



RI 111346-12-8 CAPLUS
CI 4138-Quinazolinone, 6,8-dichloro-2-[(4-methylphenyl)amino]-2-phenyl- (CA INDEX NAME)



14 ANSWER 14 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:092169 CAPLUS
DOCUMENT NUMBER: 129:02169
ORIGINAL REFERENCE NO.: 129:11361a,11364a
TITLE: Magnetic anisotropic effect as demonstrated by high resolution PMR in some benzoxazinones, quinazolinones and their thiono analogs
AUTHOR(S): Abdel-Maged, Mohamed F.; Tenison, A.
CORPORATE SOURCE: Far. Sci., Tanta Univ., Tanta, Egypt
SOURCE: Spectroscopy Letters (1987), 20(8), 583-90
CODEN: SPLSLE; 1988: 0039-7010
JOURNAL
DOCUMENT TYPE: English
LANGUAGE: English



AB The 18 PMR spectra of benzoxazinone I (X = O), its thio analog (I, X = S), quinazolinones (II; X = Me, Ph, XI = NH2, NHPh, Ph, N(CH2CH2C1-p), and the thio analogs of II were examined. Replacement of O with S had a pronounced effect on H-4 of the benzene ring and on the 2 ortho protons of the 2-Ph group.

RI 111734-47-1 111734-68-2
CI 4138-Quinazolinone, 6-bromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



RI 111734-48-2 CAPLUS
CI 4138-Quinazolinethione, 6-bromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)

14 ANSWER 15 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:74235 CAPLUS
DOCUMENT NUMBER: 112:74235
ORIGINAL REFERENCE NO.: 112:13015a,13018a
TITLE: Magnetic anisotropic effect as demonstrated by high resolution PMR in some benzoxazinones, quinazolinones, and their thiono analogs
AUTHOR(S): Abdel-Maged, Mohamed F.; Tenison, A.
CORPORATE SOURCE: Far. Sci., Tanta Univ., Tanta, Egypt
SOURCE: Delta Journal of Science (1987), 11(2), 707-19
CODEN: DJSCD; 1988: 1012-5965
JOURNAL
DOCUMENT TYPE: English
LANGUAGE: English
AB The one- and two-dimensional NMR spectra of number of 7,1-benzoxazin-4-ones and 4(1H)-quinazolinones and their thiono analogs were recorded. A complete assignment of protons in all compounds studied was made.
RI 111734-47-1 111734-48-2
CI 4138-Quinazolinone, 6-bromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



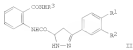
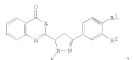
RI 111734-48-2 CAPLUS
CI 4138-Quinazolinethione, 6-bromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



14 ANSWER 16 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L4 ANSWER 55 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1987:11930 CAPLUS
 DOCUMENT NUMBER: 106:11930
 ORIGINAL REFERENCE NO.: 106:19579a,19582a
 TITLE: Some reactions of pyrazolylbenzoxazones and
 quinoxalones
 AUTHOR(S): Soliman, S. A.; Hassan, M. A.; Salem, M. A. I.;
 Sherrif, L. S.
 CORPORATE SOURCE: Fac. Sci., Assiut Univ., Assiut, Egypt
 SOURCE: J. Chem. Soc. Chem. Commun. (1986),
 812, 97-106
 CODEN: JCSCDH; ISSN: 0263-5066
 LANGUAGE: English
 CHEMA SOURCE(S):
 GI: CASCASCT: 106:11930

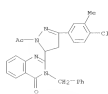


AB Arylpyrazolylbenzoxazones I (R = Cy, R = H, R1 = H, Cl; R2 = Me, Br) react easily with anions R3NH2 (R3 = e.g. Me, Bu, 4-MeOC6H4, PhCH2) in EtOH or AcOH to furnish the corresponding anilides II or quinoxalones I (R = Ar, R = H, R1 = Acetyl, benzoyl, benzoyl and nitro) of I led to the formation of I (R = Ar, Br, Bu, R1 = Cl). Other transformations of I were also investigated.
 IT 107263-51-0P 107263-60-5P
 RI: RPI (Synthetic preparation); PREP (Preparation)
 (Preparation of)
 RI 107263-51-0 CAPLUS
 CI 4128: Quinoxalones, 2-[1-acyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]-3-(phenylmethyl)- (CA INDEX NAME)

L4 ANSWER 56 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1984:63736 CAPLUS
 DOCUMENT NUMBER: 105:63736
 ORIGINAL REFERENCE NO.: 105:6113a,6114a
 TITLE: Laboratory evaluation of antimicrobial activity of 2,3-disubstituted quinoxaline (3R)-4-ones and their metal complexes
 AUTHOR(S): Reddy, P. Bhagavan; Reddy, S. M.; Reddy, K. Laxma; Lingappa, P.
 CORPORATE SOURCE: Dep. Bot., Kakatiya Univ., Warangal, 506 009, India
 SOURCE: Indian Phytopathology (1985), 38(2), 261-4
 CODEN: IPHYDH; ISSN: 0379-973X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 2-Methyl-3-anilinoquinoxaline(3R)-4-one (I) [1221-79-0] exhibited less fungicidal activity than 2-phenyl-3-anilinoquinoxaline(3R)-4-one (II) [3795-88-8], however, both I and II inhibited totally spore germination of *Penicillium oxysporum* and *Curvularia lanata* at 360 µg/ml. The fungicidal activity of I and II was considerably enhanced when compared with Cu, Co, Zn and Cd. Also, the bactericidal activity of I and II towards *Staphylococcus aureus* and *Proteus vulgaris* increased when compared with Co, Ni, Cu, Zn and Cd. MIC1 and MIC2 of Cu, Zn and Cd were lower than those of the complexes.
 IT 3795-88-8
 RI: SAC (Biological activity or effector, except adverse); RSD (Biological study, unclassified); RSD (Biological study)
 (Bactericidal) and Fungicidal activity of
 RI 3795-88-8 CAPLUS
 CI 4128: Quinoxalones, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)



L4 ANSWER 55 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



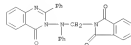
RI 107263-60-5 CAPLUS
 CI 4128: Quinoxalones, 2-[1-acyl-3-(4-chloro-3-methylphenyl)-4,5-dihydro-1H-pyrazol-5-yl]-3-(phenylmethyl)- (CA INDEX NAME)



L4 ANSWER 57 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1984:12954 CAPLUS
 DOCUMENT NUMBER: 104:12954
 ORIGINAL REFERENCE NO.: 104:2054a,2054b
 TITLE: Synthesis and bioassay of some anisoklylated products
 AUTHOR(S): Pandey, V. K.
 CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, 226007, India
 SOURCE: Biological Memoirs (1984), 9(2), 184-8
 CODEN: BMDH; ISSN: 0379-9097
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI: 104:2054a,2054b



AB Quinoxalones I (R1 = phthalimide, R = H, R1 = benzamide, salicylamide, 2-phthalimidepropionamide) were prepared from 2-phenyl-3-anilinoquinoxaline(4R)-one by treatment with appropriate anido or imido acids. I decreased spontaneous motor activity in mice at 1000 mg/kg i.p., but had no significant antitumor activity.
 IT 101132-54-1P 101132-55-2P 101132-56-3P
 RI: RPI (Synthetic preparation); PREP (Preparation)
 (Preparation and central parasympatholytic activity of)
 RI 101132-54-1 CAPLUS
 CI 18: Isoindole-1,3(2H)-dione, 2-[[4-(oxo-2-phenyl-3(4R)-quinoxalyl)phenylamino]methyl]- (CA INDEX NAME)



RI 101132-55-2 CAPLUS
 CI 18: Isoindole-1,3(2H)-dione, 2-[[4-(oxo-2-phenyl-3(4R)-quinoxalyl)phenylamino]methyl]- (CA INDEX NAME)

14 ANSWER 59 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RU 8524-70-8 CAPLUS
CN 4(1R)-Quinazolinone, 2-[(4-methoxyphenyl)-3-(phenylamino)-] (CA INDEX NAME)



14 ANSWER 60 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1992:45570 CAPLUS
DOCUMENT NUMBER: 97:55730
ORIGINAL REFERENCE NO.: 97:8393A, 292A
TITLE: Stabilization of carbanionic centers by neutral heterocyclic rings
AUTHOR(S): Katicity, Alan P.; Gonszowski, Nicholas E.; Kusiak, Tapani; Jayaram, Chandra Vasileios, Socrates N.
CORPORATE SOURCE: Dep. Chem., Univ. Florida, Gainesville, FL 32611, USA
SOURCE: Journal of Chemical Research, Synopses 1992, (2), 24-7
CDBR: JCPDCA; ISSN: 0368-1342
DOCUMENT TYPE: Journal
LANGUAGE: English
CDBR SOURCE(S): CASREACT 97:55730
CI



AB α -Carbanions were generated from N-benzyI derive of 2-phenylquinazolin-4-one, 1,3,3-bisoxetatin-4-one, and 3,4,5-triphenyl-2-imidazolinone, and α -ring-dianions from N-benzyI derive of 1,7(4R)-isquinolizines, quinazolinones, 5,5-dimethyl-2,4-imidazolidinedione, and 4,5-diaryl-2-imidazolinone. Reaction of the carbanions with electrophilic substrates gave α -alkylation for most 5-membered ring substrates, but complex mixtures for the 6-membered ring substrates. E.g., imidazolin-1 (R = H) was lithiated by LiHClO₄ to give I (R = H) which reacted with R₂C=O, p-MeOC₆H₄COCl, ClCCl₃, MeCOCl, PhCOCl, PhCO₂Cl, and p-MeOC₆H₄CO₂Cl to give I (R = O, p-MeOC₆H₄CO₂, CO₂Me, MeCO₂Ph, PhCO₂Ph, p-MeOC₆H₄CO₂Ph, p-MeOC₆H₄CO₂Me) in 60-85% yield. The lithiation-alkylation sequence requires the dipole stabilization provided by imidazo-2-one and imidazolin-2,4-dione rings.

IT 1957-37-59
RU RCT (Reagent); SRN (Synthetic preparation); PREP (Preparation); RACT (Reaction or reagent)
[Preparation, lithiation, and alkylation of]
RU 1957-37-5 CAPLUS
CN 4(1R)-Quinazolinone, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)

14 ANSWER 61 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RU 8524-70-8 CAPLUS

CN 4(1R)-Quinazolinone, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)

14 ANSWER 61 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1992:43914 CAPLUS
DOCUMENT NUMBER: 97:29214
ORIGINAL REFERENCE NO.: 97:6659A, 6652A
TITLE: Search for new anthelmintics. Part V. Synthesis of some 2-alkyl/aryl-6-halo(6-8-dihalo)-3-[[13,4-methylenedioxyphenyl)methyl]phenylamino-7-ymethylquinazolin-4(1R)-ones
AUTHOR(S): Tizabi, S. S.; Pandey, M. P.
CORPORATE SOURCE: Dep. Chem., Lucknow Univ., Lucknow, India
SOURCE: Acta Chemica Indica, Chemistry 1991, 7(1-4), 7-11
CDBR: ACTCIV; ISSN: 0253-7338
DOCUMENT TYPE: Journal
LANGUAGE: English
CI

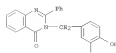


AB Quinazolinones I (R = H, Me, Ph, pyridyl; R1 = H, Cl, Br, Iodo; R2 = H, Cl, Br; R3 = H) were obtained in 90-98% yield by treating anthranilic acid with NCOH. Treatment of I (R2 = H) with ClCO and o-RO₂C₆H₄ gave

I (R3 = 3,4-(HO)₂C₆H₃CH₂, II) which on treatment with CHCl₃ gave I (R3 = piperonyl). I (R3 = 7-phenoxyarimethyl) were obtained by treating II with 2-RO₂C₆H₄.

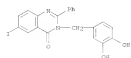
IT 82326-80-59 82326-82-7P 82326-85-0P
RU RCT (Reagent); SRN (Synthetic preparation); PREP (Preparation); RACT (Reaction or reagent)
[Preparation and reaction of, with dichloromethane]

RU 82326-80-5 CAPLUS
CN 4(1R)-Quinazolinone, 3-[[3,4-dihydroxyphenyl)methyl]-2-phenyl- (CA INDEX NAME)

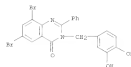


RU 82326-82-7 CAPLUS
CN 4(1R)-Quinazolinone, 3-[[3,4-dihydroxyphenyl)methyl]-2-phenyl- (CA INDEX NAME)

14 ANSWER 61 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RI 81144-93-0 CAPLUS
 CH 4130 Quinazolinone,
 6,8-dihydro-3-[(3,4-dihydroxyphenyl)methyl]-2-phenyl-
 (CA INDEX NAME)



14 ANSWER 62 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1901144400 CAPLUS
 DOCUMENT NUMBER: 961144400
 ORIGINAL REFERENCE NO.: 9612785a,2778a
 TITLE: Chromogenic quinazolinones
 INVENTOR(S): Fletcher, Ian John
 PATENT ASSIGNER(S): Ciba-Geigy A.G., Switz.
 SOURCE: Brit. Pat. Appl., 9 pp.
 OTHER: BAQUEZ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 ENTRY: INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|------------|
| GB 236974 | A | 19910019 | GB 1901-3163 | 19010119 |
| DE 3102760 | A1 | 19011119 | DE 1901-3102760 | 19010119 |
| PRIORITY APPL. INFO. | | | CH 1900-701 | A 19000117 |

OI



AB The quinazolinones I [R = hydroxymethyl; R1 = 4-(dialkylamino)phenyl, 2-carboxyl] are useful as color formers in pressure- or heat-sensitive recording materials. Thus, 2-HYDROXYQUINAZOLINONE (1441-08-1) is reduced with 4-MeOCH3C6H4NO [100-10-1] in EtOH for 16 h and the quinazolinone derivative [81144-93-0] is dehydrogenated with chloranil in DMF at 50-55° to give I (R = Me, R1 p-MeOC6H4) [81144-96-9], giving a lightfast yellow

in

recording materials.

IT 81144-93-4

EL: USE: [Uses]

[color former, for pressure- and heat-sensitive copy paper]

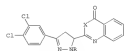
RN 81144-93-4 CAPLUS

CH 4130 Quinazolinone, 2-[4-(dimethylamino)phenyl]-3-(phenylethyl)- (CA INDEX NAME)

14 ANSWER 63 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



14 ANSWER 63 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1901151542 CAPLUS
 DOCUMENT NUMBER: 9511542
 ORIGINAL REFERENCE NO.: 9519377a,19380a
 TITLE: Some reactions of 2-[3-(3,4-dichlorophenyl)-2-pyrazolone-5-yl]-4R-benzoxazin-4-one
 AUTHOR(S): Soliman, E. A.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Revue Roumaine de Chimie (1991), 26(5), 699-703
 OTHER: RSCRA; ISSN: 0035-3990
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): COMPACT 9511542
 OI



AB Treating the title compound (I, X = O, R = H) (II) with AgCl, SnCl, piperidine, and morpholine gave I (X = O, R = H), R1 piperidinyl, morpholinyl resp., whereas treating II with KHMDS (R1 = Me, Bu, FSC2H, 4-MeOC6H4) gave I (X = SR1, R = H).

IT 70955-74-42

EL: SYN (Synthetic preparation); PREP (Preparation)

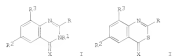
[Preparation of]

RN 70955-74-4 CAPLUS

CH 4130 Quinazolinone, 2-[3-(3,4-dichlorophenyl)-4,5-dihydro-1H-pyrazol-5-yl]-3-(phenylethyl)- (CA INDEX NAME)

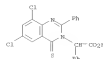


44 ANNEAU 64 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 13801246705 CAPLUS
DOCUMENT NUMBER: 1381246705
ORIGINAL REFERENCE NO: 021235454,238484
TITLE: Quinacoline-4-thione or 4-quinacolinone carbonyl
acid derivatives
AUTHOR(S): Legrand, Louis; Baromet, Rene; Maugard, Joelle;
Toussard-Lampin, Odette; Thida-Kruep, Genevieve
CORPORATE SOURCE: Centre de Recherche, Shv. Chen, Cam,
SOURCES: Y-4237, Fr.
14(4),
European Journal of Medicinal Chemistry
SUBJECTS:
C57D-ENHACS; ISSN: 0009-4374
DOCUMENT TYPE: Original
Language: French
OTHER SOURCE(S): CASCABT 021246705



X5 Quinoxalineketones and quinoxalines 1 [K = H, Me, Ph, *o*-tolyl, *o*-ClC₆H₄,
2,4- and 2,5-Cl₂C₆H₃, Me₂C, Me₂C, 3-(CF₃)C₆H₄, 3,4-H₂INDOZOL, 4-
Me₂C₆H₃ (R = 2), 4-Me₂C₆H₃ (R = 3), 2,3,5,6-Cl₄C₂ (R = 4), Me₂C₆H₃ (R = 5),
Me₂C₆H₃ (R = 6),
1,4-di-*o*-phenyl, 1,5-*o*-H, 1,6-*o*-H, 1,7-*o*-H, 1,8-*o*-H, Cl₂ X = S, Cl₂ X = O] were
prepared by condensing 11 (K = H) with glyoxal, β -alanine, alanine, or
phenylglyoxine or 21 (K = O) with Me₂CINDOZOL. The antiinflammatory
activity of quinoxalines 1 (X = H, S, K = CH₂CO₂H) and quinoxalines
2 (X = O, R = CH₂CO₂H, CH₂CO₂Me) was studied.

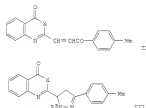
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18 12,13-9a-1P (Synthetic preparation); 10E2 (Preparation)
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21 12,13-9a-1P (Preparation)
22 12,13-9a-1P (Preparation)
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97 12,13-9a-1P (Preparation)
98 12,13-9a-1P (Preparation)
99 12,13-9a-1P (Preparation)
100 12,13-9a-1P (Preparation)



L4 ANSWER 64 OF 84 CAPLUS COPYRIGHT 2009 ACS on 5TH (Continued)

(Continued)

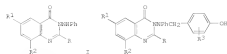
44 ANIMER 85 OF CARLOS COPENHAGEN 2009 ACS ON STE
ACCESSION NUMBER: 1979-575295 CARLOS
DEPOSITED NUMBER: 91-15295
ORIGINAL REFERENCE NO.: 91-28279,28282a
TITLE: Reactions with the amides and chlorides of some
fluoroacetylenic acids
AUTHOR(S): Sammour, A.; Mistry, A. A.; Abdallah, M.; Soliman, E. A.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Journal of Chemistry (1979), Volume 24,
1979, 19(6), 1159-65
CODEN: JOCUAC; ISSN: 0167-0422
JOURNAL
English
CASPACAT 91:15295

[illegible]

1.4 ANSWER 53 OF 84 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)

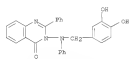
(Continued)

14 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 ACCESSION NUMBER: 1979140909 CAPLUS
 DOCUMENT NUMBER: 91140909
 ORIGINAL REFERENCE NO.: 9112079a,2722a
 TITLE: Synthesis and CNS [central nervous system] activity of some 2-aryl/alkyl-3-[N-phenyl, N-(dihydroxyphenyl)methyl]-amino-4,8-disubstituted-quinazolin-4(3H)-ones
 AUTHOR (S): Tiwari, S. S.; Salazar, R. K.; Agrawal, Rajesh
 CORPORATE SOURCE: Dep. Chem., Univ. Lucknow, Lucknow, 226 007, India
 SOURCE: Current Science [1999], 48(11), 568-71
 DOCUMENT TYPE: Chemistry abstract
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 91140909
 G4

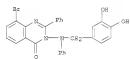


AB Eight quinazolinones I (R = Me, Ph; R1 = H, Br; R2 = H, Br, I) were prepared in 58-76% yield by condensation of FUSINE2 with the corresponding isocyanates. The Mannich type reaction of I with catechol and resorcinol gave II (R1 = 2- or 3-OH). II (R = Me, Ph; R1 = R2 = H, Br; R = Ph, R1 = R2 = Br, I; R1 = 3-OH; R = Me, R1 = R2 = H, Br; R1 = 2-OH) were nontoxic and were central nervous system depressants and decreased the body temperature. II (R = Me, R1 = R2 = H; R = Ph, R1 = H, R2 = I)
 R1 = 3-OH) showed antileishmanial activity.
 IT 37891-88-3P 71472-62-3P 71472-63-4P
 71472-64-3P
 RL: RCT [Reactant]; SYN [Synthetic preparation]; PREP [Preparation]; RACT [Reactant or reagent]
 Preparation and Mannich type reaction of, with catechol and resorcinol
 RD 37891-88-3 CAPLUS
 CH 41381-Quinazolinone, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)

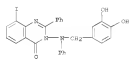
14 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 (prepn. and pharmacol. of)
 IT 71476-94-3 CAPLUS
 CH 41381-Quinazolinone, 3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)



RD 71476-95-4 CAPLUS
 CH 41381-Quinazolinone, 8-bromo-3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)



RD 71476-97-6 CAPLUS
 CH 41381-Quinazolinone, 3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-8-iodo-2-phenyl- (CA INDEX NAME)



IT 71476-94-3P 71478-52-3P 71478-53-3P
 71478-54-3P 71478-55-3P
 RL: RFP [Synthetic preparation]; PREP [Preparation]
 (preparation of)
 RD 71476-94-3 CAPLUS
 CH 41381-Quinazolinone, 6,8-dibromo-3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)

14 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RD 71472-62-3 CAPLUS
 CH 41381-Quinazolinone, 6-bromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



RD 71472-63-4 CAPLUS
 CH 41381-Quinazolinone, 6,8-dibromo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)

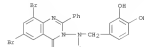


RD 71472-64-5 CAPLUS
 CH 41381-Quinazolinone, 8-iodo-2-phenyl-3-(phenylamino)- (CA INDEX NAME)

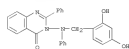


IT 71476-94-3P 71476-95-4P 71476-97-6P
 RL: SYN [Synthetic preparation]; PREP [Preparation]

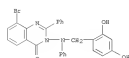
14 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



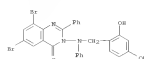
RD 71478-52-9 CAPLUS
 CH 41381-Quinazolinone, 3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)



RD 71478-53-0 CAPLUS
 CH 41381-Quinazolinone, 8-iodo-3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)

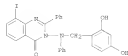


RD 71478-54-1 CAPLUS
 CH 41381-Quinazolinone, 6,8-dibromo-3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-2-phenyl- (CA INDEX NAME)

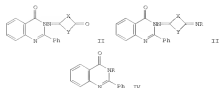


RD 71478-55-2 CAPLUS
 CH 41381-Quinazolinone, 3-[[[2,4-dihydroxyphenyl]methyl]phenylamino]-8-iodo-2-phenyl- (CA INDEX NAME)

14 ANSWER 66 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
phenyl- (CA INDEX NAME)



14 ANSWER 87 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 1979:54899 CAPLUS
DOCUMENT NUMBER: 90:54899
ORIGINAL REFERENCE NO.: 90:54899, 97044
TITLE: Reactions on 2-phenyl-3-amino-4(3H)-quinazolinone
AUTHOR(S): Anwar, M.; Abdel-Hay, F. I.; Fahmy, M.
CORPORATE SOURCE: Fac. Sci., Tanta Univ., Tanta, Egypt
SOURCE: Forum Journal de Chimie (1978), 23(7), 1065-91
CODING: EICRAJ; ISSN: 0035-3950
JOURNAL: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 90:54899
CI:

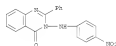


AB Condensation of the title compound (I) with phthalic or succinic anhydrides or indole or N-phenyl- or N-p-methoxyphenylamide gave 75-85% II (Y = O, NH, NPh, p-MeOC6H4; X = CH=CH2, CH=CH, o-phenylene). Condensation of II (X = o-CH3, Y = O, NH, X = CH=CH, Y = PMH) with hydrazine and aromatic amines gave 65-75% III (X = PMH, Ph, p-tolyl, p-CH3C6H4), IV (X = NHC6H5, R1 = R2 = Me; R1 = Ph, R2 = Me) were obtained in 75% yield by reaction of I with R1COR2. IV (R1 = R2), R1 = Me, Ph, p-CH3C6H4, CH3CO2H, CH3CO2Ph, 2,4-(OH)2C6H3 were prepared in 65-70% yield by reaction of I with resp. alkyl halide.
IT 37895-88-8P 37895-95-7P
R1: SPH (Synthetic preparation); R2: PEP (Preparation)
[Preparation of]
R1: 37895-88-8 CAPLUS
CN 4(3H)-Quinazolinone, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)

14 ANSWER 87 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)



R1 37895-95-7 CAPLUS
CN 4(3H)-Quinazolinone, 3-[(4-nitrophenylamino)-2-phenyl- (CA INDEX NAME)



14 ANSWER 68 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 1977:42500 CAPLUS
DOCUMENT NUMBER: 87:42500
ORIGINAL REFERENCE NO.: 87:36734, 36764
TITLE: 2-Aryl-3-amino-4-quinazolinones
AUTHOR(S): Moady, A. M.; Anwar, M.; Abdel-Mogued, M. F.
CORPORATE SOURCE: Fac. Sci., Tanta Univ., Tanta, Egypt
SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1976), 71(2), 341-9
CODING: ACARJ; ISSN: 0001-4007
JOURNAL: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 87:42500
CI:



AB Aminoquinazolinones I (R = 2-Me, 4-Cl, 4-NO2, 4-Me, X = NHK), R1 = R2, NHCOR2, NHPH, NHC6H4RO2, NHC6H4(RO2)2-2,4) were prepared by treating I (X = O) with R1R2NH. I (X = NHK, R = 4-Me, 4-Cl) were treated with aldehydes to give I (X = NHCH2R2, R2 = Ph, 4-MeOC6H4, 2-HOCC6H4, 4-HOCC6H4, 2-ClC6H4, 4-ClC6H4, 2-CH3C6H4, 4-CH3C6H4).
IT 63002-74-4P 63002-75-5P 63002-76-6P
63002-77-7P 63002-78-8P 63002-79-9P
63002-80-0P 63002-81-1P 63002-82-2P
R1: SPH (Synthetic preparation); R2: PEP (Preparation)
[Preparation of]
R1: 63002-74-4 CAPLUS
CN 4(3H)-Quinazolinone, 2-(4-methylphenyl)-3-(phenylamino)- (CA INDEX NAME)



R1 63002-75-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(4-nitrophenyl)-3-(phenylamino)- (CA INDEX NAME)

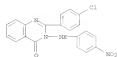
L4 ANSWER 89 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



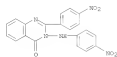
RR 67002-76-6 CAPLUS
 CH 4(1H)-Quinazolinone, 2-[(4-methylphenyl)-3-[(2-nitrophenyl)amino]-2H-1,2,4-triazol-5-ylidene]- (CA INDEX NAME)



RR 67002-77-7 CAPLUS
 CH 4(1H)-Quinazolinone, 2-[(4-chlorophenyl)-3-[(4-nitrophenyl)amino]-2H-1,2,4-triazol-5-ylidene]- (CA INDEX NAME)

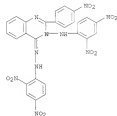


RR 67002-78-8 CAPLUS
 CH 4(1H)-Quinazolinone, 2-[(4-nitrophenyl)-3-[(4-nitrophenyl)amino]-2H-1,2,4-triazol-5-ylidene]- (CA INDEX NAME)



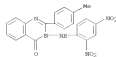
L4 ANSWER 89 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RR 67002-82-4 CAPLUS
 CH 4(1H)-Quinazolinone, 3-[[2,4-dinitrophenyl]amino]-2-[(4-nitrophenyl)-2-[(2,4-dinitrophenyl)hydrazono] (CA INDEX NAME)

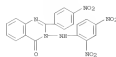


L4 ANSWER 89 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

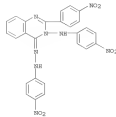
RR 67002-79-9 CAPLUS
 CH 4(1H)-Quinazolinone, 3-[[2,4-dinitrophenyl]amino]-2-[(4-methylphenyl)-2H-1,2,4-triazol-5-ylidene]- (CA INDEX NAME)



RR 67002-80-2 CAPLUS
 CH 4(1H)-Quinazolinone, 3-[[2,4-dinitrophenyl]amino]-2-[(4-nitrophenyl)-2H-1,2,4-triazol-5-ylidene]- (CA INDEX NAME)



RR 67002-81-3 CAPLUS
 CH 4(1H)-Quinazolinone, 2-[(4-nitrophenyl)-3-[(4-nitrophenyl)amino]-2-[(4-nitrophenyl)hydrazono] (CA INDEX NAME)



L4 ANSWER 89 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1574:67859 CAPLUS
 DOCUMENT NUMBER: 6177859
 ORIGINAL REFERENCE NO.: 6112383a, 12384a
 TITLES: Spiro[1,3]-benzodioxole-2,4'-(4H-3,1)-benzothiazines and their cleavage with amines and hydrazines. New series of spiroane
 AUTHOR(S): Latif, R.; Said, I. F.; Mashriky, N.; Assad, F. M.
 CORPORATE SOURCE: Natl. Res. Cent., Cairo, Egypt
 SOURCE: Tetrahedron Letters (1974), (15), 1755-6
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 DT For diagram(s), see printed CA Issue.
 AB The spiroane 3-IV were prepared (30-60%) from tetrachloro- or bromo-o-benzoquinone by treatment with the appropriate benzothiazine-4-thione in DMF. Treatment of I-III with p-2-CERANUR (R2 = H, MeO, Cl) gave 44-78% of the quinazolinone-4-thione V analogues
 products were obtained with 70-80%
 IT 17961-57-4P 53628-22-1P 53628-25-4P
 EL: 8PM (Synthetic preparation); PREP (Preparation)
 Preparation: 6P
 RR 17961-57-4 CAPLUS
 CH 4(1H)-Quinazolinethione, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)



RR 53628-22-1 CAPLUS
 CH 4(1H)-Quinazolinethione, 2-(4-methylphenyl)-3-(phenylamino)- (CA INDEX NAME)



RR 53628-25-4 CAPLUS
 CH 4(1H)-Quinazolinethione, 2-(4-methoxyphenyl)-3-(phenylamino)- (CA INDEX NAME)

14 ANSWER 89 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)



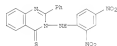
14 ANSWER 70 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STM

ACCESSION NUMBER: 1973:505166 CAPLUS
 DOCUMENT NUMBER: 79:105166
 ORIGINAL REFERENCE NO.: 79:105166, 10555a
 TITLE: Reactions of 2-phenyl-4R-3,1-benzothiazine-thione under Friedel-Crafts and Grignard conditions
 AUTHOR(S): Samour, A.; Solim, M. I.; Fahmy, A. F. M.; Elwa, K.
 CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
 SOURCE: Indian Journal of Chemistry (1973), 11(5), 437-9
 CDSN: JZCCAY; ISSN: 0019-5197
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CI: For diagram(s), see printed CA Issue.
 AB: The reactions of 2-phenyl-4R-3,1-benzothiazine-4-thione (I) with aromatic hydrazones ArR (Ar = Ph, 4-MeOC6H4) under the conditions of Friedel-Crafts reaction and with Grignard reagents, (R2OAr = Me, Et, Ph), give the ring opened products 3-ArC6H4CH2C(=NH)Ar and 3-ARCECH2C(=NH)Ar, resp. The quinazoline-4-thiones (II) were obtained by reaction of I with aromatic and aliphatic amines R1NH2 (R1 = 2-, 3-, 4-MeOC6H4; 2-MeOC6H4, HOCH2CH2, etc.) or R2OH. I react with pyridine to give 3-thioxo-4-oxo-4-thioxobenzoic acid (III), whereas with NUREN2.H2O and PHNHE2 the products obtained are 3-amino-4-quinazolinone hydrazones IV (R2 = H, Ph). The reaction of I with 2,4-dinitrophenylhydrazine gives II (R1 = 2,4-(NO2)2C6H3NH). The reaction of I with dithionitrobenzene and diphenyldisoxathione gives ethylene sulfides V (R3 = H, Ph). With copper bromide VI is obtained.
 IT: 49499-45-89 49499-46-39
 RI: STM (Synthetic preparation); PREP (Preparation)
 IN: 49499-45-8 CAPLUS
 CN: 4(3R)-Quinazolinone, 2-phenyl-3-(phenylamino)-, 2-phenylhydrazine (CA INDEX NAME)



IN: 49499-46-9 CAPLUS
 CN: 4(3R)-Quinazolinethione, 3-[(2,4-dinitrophenyl)amino]-2-phenyl- (CA INDEX NAME)

14 ANSWER 70 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)

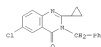


14 ANSWER 71 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STM

ACCESSION NUMBER: 1973:72047 CAPLUS
 DOCUMENT NUMBER: 79:72047
 ORIGINAL REFERENCE NO.: 78:11453a, 11456a
 TITLE: 3-Aryl-2-cyclopropyl-4(3R)-quinazolinones
 AUTHOR(S): Somashekara, S.; Dighe, V. S.; Gokhale, S. V.
 CORPORATE SOURCE: Sarabhai Res. Cent., Baroda, India
 SOURCE: Indian Journal of Pharmacy (1972), 34(5), 121-2
 CDSN: JZFRAS; ISSN: 0019-5472
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CI: For diagram(s), see printed CA Issue.
 AB: Twenty cyclopropylquinazolinones (I; R = Ph, o-MeC6H4, p-MeOC6H4, FCH2, etc.; R1 = H, Cl) were prepared by condensing o-aminobenzoic acid, with cyclopropenecarboxylic acid or N-cyclopropylcarboanthranic acid with acetic anhydride, in pyridine with Et3N. M: 100 mg/kg I (R = o-MeC6H4) produced hypoactivity and ataxia in mice. The ED50 of I (R = o-MeC6H4) against electroshock convulsions in mice was 75 mg/kg.
 IT: 40057-10-19 40057-18-39
 RI: STM (Synthetic preparation); PREP (Preparation)
 IN: 40057-10-1 CAPLUS
 CN: 4(3R)-Quinazolinone, 2-cyclopropyl-3-(phenylmethyl)- (CA INDEX NAME)



IN: 40057-18-9 CAPLUS
 CN: 4(3R)-Quinazolinone, 6-chloro-2-cyclopropyl-3-(phenylmethyl)- (CA INDEX NAME)



L4 ANSWER 72 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1972:152103 CAPLUS
 DOCUMENT NUMBER: 77:152103
 ORIGINAL REFERENCE NO.: 77:250114,25014a
 TITLE: Action of carbonyl reagents and diazomethane on 2-ethyl-3,1-benzoxazin-4-ones and 2-ethyl-3-alkylquinazolin-4-ones. II
 AUTHOR(S): Wassef, M. F.; Masahel, M. F.; Gabry, G. G.
 CORPORATE SOURCE: Polym. Pigm. Lab., Natl. Res. Cent., Cairo, Egypt
 SOURCE: United Arab Republic Journal of Chemistry (1975), Volume Date 1970, 13(4), 379-90
 CORDIS (AUCA): ISSN: 0372-3704
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GC For diagram(s), see printed CA Issue.
 AB 2-Methyl-3,1-benzoxazin-4-one (I, R = Me) boiled with p-ClC₆H₄CHO gave I (R = p-ClC₆H₄CHO). Heating I (R = ClC₆H₄CHO) with H₂O-NaCl and NaOH gave α-(ethoxycarbonyl)benzoic acid (II). Similarly, I (R = p-MeOC₆H₄CHO) gave the corresponding II. Boiling 2-methyl-3-alkylquinazolin-4-one with p-ClC₆H₄CHO gave the 2-p-chloroethyl-3-alkylquinazolin-4-ones (III). NaOH reacted with III (R = Ph, Et = Et, Ph, PhMe) in EtOH to give quinazolin-4-one oximes (IV). R₁H₄ and I (R = Ph)CH₃, p-MeOC₆H₄CH₃, p-ClC₆H₄CH₃ in acid solution gave α-(ethoxycarbonyl)benzoic acid (II). Heating V above their m.p. gave III (Et = Me). R₁H₄ reacted with III (R = Ph) to give the triazole deriva. (VI). CH₃NE and III gave the 2-(4-ethylphenyl)-3-alkylquinazolin-4-one deriva. (VII), which, when heated above their m.p., gave α-(methylsilyl)-quinazolin-4-one deriva. (VIII).
 IT 3765-16-49 3765-19-7
 EL: SPH (Synthetic preparation); PREP (Preparation)
 CH 4(18)-Quinazolinone, 2-(4,5-dihydro-4-phenyl-3H-pyrazol-3-yl)-3-(phenylethynyl)- (CA INDEX NAME)
 3765-16-4 CAPLUS
 4(18)-Quinazolinone, 2-(4,5-dihydro-4-phenyl-3H-pyrazol-3-yl)-3-(phenylethynyl)- (CA INDEX NAME)



3765-19-7 CAPLUS
 4(18)-Quinazolinone, 2-(4,5-dihydro-4-(4-methoxyphenyl)-3H-pyrazol-3-yl)-3-(phenylethynyl)- (CA INDEX NAME)

L4 ANSWER 73 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1971:151519 CAPLUS
 DOCUMENT NUMBER: 77:151519
 ORIGINAL REFERENCE NO.: 77:21177a,21189a
 TITLE: Pharmacology of some new 4-(3H) quinazolinones. II. Effect on reproduction, blood pressure, and respiration
 AUTHOR(S): Sakena, S. K.; Sonakshara, S.
 CORPORATE SOURCE: Sarathi Res. Cent. Med. Wdls, Raide, India
 SOURCE: Indian Journal of Medical Research (1971-1980) 119(2), 284-6
 CORDIS (JMAQ): ISSN: 0013-5340
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB About 20 quinazolinones fed to rats at 30.0 mg/kg/day on days 1-7 of pregnancy, 2-methyl-3-(4-hydroxy-2-methylphenyl)-4(3H)-quinazolinone (I) [50-52-4] showed the greatest antifertility activity, causing 62% inhibition of pregnancy. 2-Methyl-3-(2-hydroxy-4-methylphenyl)-4(3H)-quinazolinone [36556-91-9] inhibited pregnancy by 60%, and 3 other compds. by 10%.
 IT 3751-92-99
 EL: SPH (Synthetic preparation); PREP (Preparation)
 CH 4(18)-Quinazolinone, 2-(3-phenylethynyl)-2-(4-pyridinyl)- (CA INDEX NAME)
 3751-92-9 CAPLUS
 4(18)-Quinazolinone, 2-(3-phenylethynyl)-2-(4-pyridinyl)- (CA INDEX NAME)



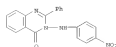
L4 ANSWER 72 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L4 ANSWER 74 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1972:151152 CAPLUS
 DOCUMENT NUMBER: 77:143152
 ORIGINAL REFERENCE NO.: 77:1841a,1844a
 TITLE: Synthesis of some 4H-3,1-benzoxazin-4-ones and 4-quinolones and their reaction with hydrazines
 AUTHOR(S): Samour, A. J.; Solim, M. I. R.; Rado, M. Amer
 CORPORATE SOURCE: Fac. Sci. Eng., Ain Shams Univ., Cairo, Egypt
 SOURCE: United Arab Republic Journal of Chemistry (1971), 14(2), 197-205
 CORDIS (AUCA): ISSN: 0372-3704
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GC For diagram(s), see printed CA Issue.
 AB Heating 2-methyl-6H-3,1-benzoxazin-4-one (I) with aldehydes and ZnCl₂ gave
 (II) (R = Ph, p-MeOC₆H₄, p-MeC₆H₄, 3,4-C₆H₃O₂CH₂, ClC₆H₄, ClC₆H₄). Similarly, condensation of acenaphthol acid, in pyridine, with unsat. acid chlorides (olefinamyl-, p-methoxycinnamyl-, p-hydroxycinnamyl-, and 3,4-methylenedioxybenzyl chlorides) gave II. Heating 2-phenyl-4H-3,1-benzoxazin-4-one with primary aromatic amines and ZnCl₂ gave quinazolinone (III). R = p-MeOC₆H₄, n-MeC₆H₄, o-MeC₆H₄, p-MeC₆H₄, o-MeC₆H₄, p-ClC₆H₄, n-ClC₆H₄, o-ClC₆H₄, p-ClC₆H₄, p-MeC₆H₄, p-MeC₆H₄, o-MeC₆H₄, 1-naphthyl, 2-naphthyl, Et = Ph). Similarly, condensation of II and I with primary aromatic amines gave IV and V. (Et = Me) resp. Refluxing 0.01 mole I or II with 0.01 mole R₁H₄, PhNH₂, p-nitrophenyl hydrazine, 2,4-dinitrophenyl hydrazine, or semicarbazide. HCl gave 3-amino-4-quinolones.
 IT 3755-68-99 3755-95-79
 EL: SPH (Synthetic preparation); PREP (Preparation)
 CH 3755-68-9 CAPLUS
 CH 4(3H)-Quinazolinone, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)



3755-95-7 CAPLUS
 4(3H)-Quinazolinone, 3-[(4-nitrophenyl)amino]-2-phenyl- (CA INDEX NAME)



14 ANSWER 76 OF 84 CAPULS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1970-55397 CAPULS
 DOCUMENT NUMBER: 72155397
 ORIGINAL REFERENCE NO.: 72155397A, 72164a
 TITLE: Action of secondary amines on 3,1-benzoxazolin-4-thione
 AUTHOR(S): Denis-Gayer, Catherine; Legrand, Louis; Loez, Noel
 COMPANAT SOURCE: Fac. Sci. Univ. Gann, Fr.
 SOURCE: Bulletin de la Societe Chimique de France (1963), (12), 2127
 CORDS: RSCVAJ; ISSN: 0337-8349
 JOURNAL: Journal
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 GI For diagram(s), see printed CA Jasse.
 AB 7 are treated with dialkylamines in CS₂ to give 2-(thioaroylamino)thiobenzonides (II). 7 are treated with dialkylamines and (PHEC)DM to ECH to give quinoxaline-thiones (III).
 IT 2761-36-2P
 244 528 (Synthetic preparation); PREP (Preparation)
 NM 2761-76-2 CAPULS
 CN 4138 Quinoxaline-thione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



14 ANSWER 76 OF 84 CAPULS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1968-67728 CAPULS
 DOCUMENT NUMBER: 6977228
 ORIGINAL REFERENCE NO.: 6914447A, 64450a
 TITLE: Synthesis of 2,3-diaryl-substituted 4-quinoxalones with polyphosphoric acid
 AUTHOR(S): Poteyunin, P. A.; Koshvennikov, Yu. V.; Beldinskiy, I. S.
 COMPANAT SOURCE: USSR
 SOURCE: Uchebnyy Zapiski - Priboriki Gosudarstvennyy
 JOURNAL: zhena A. M. Gor'kogo (1964), No. 141, 309-32
 FROM REF. (B., RUSS. 1967, Austr. No. 243457
 CORDS: WFOVAJ; ISSN: 0372-4514
 JOURNAL: Journal
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI 1. Quinoxaline(s), see printed CA Jasse.
 AB In the presence of polyphosphoric acid and 2-RCOCH₂CH₂CO₂R (I, where R is Ph, PHEC) or II and various primary amines (RNE₂) III were obtained, some of which showed a soporic activity. I were obtained according to E. E. Steiger's method (1944). Polyphosphoric acid (10 g.), 0.04 mole I (R = PHEC), and 0.06 mole of PHEC were heated for 1 hr. at 185-205° the mixture was cooled and 80 ml. H₂O was added; the mixture was neutralized with soda and, after 24 hrs., 40% III (R = PHEC); R₂ = Ph), a 100-10% (RNE₂) was isolated. III (R = Ph) were obtained similarly (R₂, a yield, and m.p. given): Ph, 62.5, 158-9°; o-MeC₆H₄, 57.7, 145-7°; p-MeC₆H₄, 63, 176-7°; p-ClC₆H₄, 62.3, 189-90° (RNE₂): o-ClC₆H₄, 56, 162-4° (RNE₂): o-ClC₆H₄, 65.3, 140-1° (RNE₂): PHEC, 57, 137-8° (RNE₂): p-MeC₆H₄, 58.5, 161-4°; p-MeC₆H₄, 51, 205°; 2,4-Me₂C₆H₃, 51, 133-4°; o-MeC₆H₄, 41, 160-1°; o-MeC₆H₄, 44, 146-7°; 2-naphthyl, 56, 170-3°; III (R = PHEC) were similarly prepared (data as above): p-ClC₆H₄, 49, 115-15° (RNE₂): o-MeC₆H₄, 35, 114-15° (RNE₂): o-MeC₆H₄, 25, 94-5° (RNE₂): p-MeC₆H₄, 45, 110-1° (RNE₂): PHEC, 47, 94-5° (RNE₂): 4,2-Br₂C₆H₃, 30, 140-5° (RNE₂): o-MeC₆H₄, 39, 127-8° (RNE₂): p-MeC₆H₄, 30, 130-12° (RNE₂): p-ClC₆H₄, 45, 133-4° (RNE₂): Polyphosphoric acid (10 g.), 0.01 mole of II (R = PHEC), and 0.015 mole of PHEC were heated 60 min. at 165°, was treated as above above, and 50% III (R = PHEC); R₂ = Ph) was obtained. III (R = Ph) were similarly obtained (data as above): o-MeC₆H₄, 49, 115-15°; p-MeC₆H₄, 42, 205-3° (RNE₂): 4,2-Br₂C₆H₃, 67, 159-16° (RNE₂): III (R = PHEC) were also prepared (data as above): p-MeC₆H₄, 52, 124-5° (RNE₂): o-ClC₆H₄, 49, 104-5° (sequence also).
 IT 19657-37-5P
 NM 528 (Synthetic preparation); PREP (Preparation)
 NM 19657-37-5 CAPULS
 CN 4138 Quinoxaline-thione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)

14 ANSWER 76 OF 84 CAPULS COPYRIGHT 2009 ACS ON STN (Continued)



14 ANSWER 76 OF 84 CAPULS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1971-15713 CAPULS
 DOCUMENT NUMBER: 6615173
 ORIGINAL REFERENCE NO.: 66-21511a, 21514a
 TITLE: 3H-Quinoxaline-4-thiones
 INVENTOR(S): Legrand, M. L.
 INVENTOR ASSIGNMENT(S): Gaudin, Olivier P.
 SOURCE: Fr., 4 pp.
 CORDS: FRCAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY NO. NUM. COMPT.: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|----------|
| FR 145163 | | | 19640952 | 19650713 |

GI For diagram(s), see printed CA Jasse.
 AB The title compounds (I), where R is H, or a aliphatic, heterocyclic or aromatic group, X is H, or an alkyl, aryl, NR₂, NR, alkylamino, arylamino, or uridine group and Y is H or is represented by one or more groups chosen from halogens or alkyl groups are prepared from 3,1-benzoxazolin-4-thione (II), and NMR. 7 possesses analgesic, antiinflammatory, hypnotic, antimicrobial, and antifungal activity. Thus, a stream of dry H₂ is passed through a boiling alc. solution of 2-methyl-3,1-benzoxazolin-4-thione (III). The color changes from red to yellow and the mixture yellow needles of 2-methyl-3H-quinoxaline-4-thione, m. 219° (C₆H₅-ECH). A mixture of 17.3 g. III and 7.3 g. BzH₂ is heated to boiling until no more H₂ is evolved and cooled to yield 2-methyl-3H-quinoxaline-4-thione, m. 41° (from ECH). I prepared were (R, X, Y, and m.p. given): Me, Bu, H, 45° (RCH₃); Ph, H, H, 219° (C₆H₅); Ph, Bu, H, 205° (C₆H₅-MeCH₃); 128° (C₆H₅); Et, o-MeC₆H₄, 121°; Me, p-MeC₆H₄, H, 133° (RCH₃-C₆H₅); Ph, H, 6-Cl, 167°; Ph, CH₃, H, 168° (RCH₃-C₆H₅); Ph, CH₃, 6-Cl, 169.5°; Ph, NR₂, H, 170° (RCH₃-C₆H₅); Ph, CH₃, 6-Cl, 173°; Ph, HCH₃, H, 173°; Ph, HCH₃, H, 214°.
 IT 1762-57-4P
 NM 528 (Synthetic preparation); PREP (Preparation)
 NM 1762-57-4 CAPULS
 CN 4138 Quinoxaline-thione, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)



14 ANSWER 79 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1964:447693 CAPLUS
 DOCUMENT NUMBER: 6547093
 ORIGINAL REFERENCE NO.: 6547094-9
 TITLE: Reactivity of aryl substituted 48-3,1-benzoxazones.

AUTHOR(S):
 CORPORATE SOURCE:
 SOURCE:

DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue
 AB 5-chloro-8-methyl-4-phenyl-3-phenyl-1,2,4-oxadiazole (I) (4 g.) and 6 ml. Ac₂O refluxed 10 min. deposited on cooling 3 g. I (= 6-Cl, 3 = Me) (II), m.
 117-5° (petroleum ether) (lit. 117-5°); prepared were IX, 2, and m.p.
 given: 7-Cl, Me (III), 145° (Ac₂O); 6-Cl, Ph (IV), 190-1°
 (lit. 190-1°); 7-Cl, Ph (V), 192° (lit. 192°). I suspended in 5 times its
 volume of liquid N₂ or anisole solution at 0° kept overnight at the
 required reaction temperature, and the solution diluted with Et₂O or, in
 the case of

aromatic amines, 5% HCl afforded VI. The following VI were prepared (X,
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000, 1002, 1004, 1006, 1008, 1010, 1012, 1014, 1016, 1018, 1020, 1022, 1024, 1026, 1028, 1030, 1032, 1034, 1036, 1038, 1040, 1042, 1044, 1046, 1048, 1050, 1052, 1054, 1056, 1058, 1060, 1062, 1064, 1066, 1068, 1070, 1072, 1074, 1076, 1078, 1080, 1082, 1084, 1086, 1088, 1090, 1092, 1094, 1096, 1098, 1100, 1102, 1104, 1106, 1108, 1110, 1112, 1114, 1116, 1118, 1120, 1122, 1124, 1126, 1128, 1130, 1132, 1134, 1136, 1138, 1140, 1142, 1144, 1146, 1148, 1150, 1152, 1154, 1156, 1158, 1160, 1162, 1164, 1166, 1168, 1170, 1172, 1174, 1176, 1178, 1180, 1182, 1184, 1186, 1188, 1190, 1192, 1194, 1196, 1198, 1200, 1202, 1204, 1206, 1208, 1210, 1212, 1214, 1216, 1218, 1220, 1222, 1224, 1226, 1228, 1230, 1232, 1234, 1236, 1238, 1240, 1242, 1244, 1246, 1248, 1250, 1252, 1254, 1256, 1258, 1260, 1262, 1264, 1266, 1268, 1270, 1272, 1274, 1276, 1278, 1280, 1282, 1284, 1286, 1288, 1290, 1292, 1294, 1296, 1298, 1300, 1302, 1304, 1306, 1308, 1310, 1312, 1314, 1316, 1318, 1320, 1322, 1324, 1326, 1328, 1330, 1332, 1334, 1336, 1338, 1340, 1342, 1344, 1346, 1348, 1350, 1352, 1354, 1356, 1358, 1360, 1362, 1364, 1366, 1368, 1370, 1372, 1374, 1376, 1378, 1380, 1382, 1384, 1386, 1388, 1390, 1392, 1394, 1396, 1398, 1400, 1402, 1404, 1406, 1408, 1410, 1412, 1414, 1416, 1418, 1420, 1422, 1424, 1426, 1428, 1430, 1432, 1434, 1436, 1438, 1440, 1442, 1444, 1446, 1448, 1450, 1452, 1454, 1456, 1458, 1460, 1462, 1464, 1466, 1468, 1470, 1472, 1474, 1476, 1478, 1480, 1482, 1484, 1486, 1488, 1490, 1492, 1494, 1496, 1498, 1500, 1502, 1504, 1506, 1508, 1510, 1512, 1514, 1516, 1518, 1520, 1522, 1524, 1526, 1528, 1530, 1532, 1534, 1536, 1538, 1540, 1542, 1544, 1546, 1548, 1550, 1552, 1554, 1556, 1558, 1560, 1562, 1564, 1566, 1568, 1570, 1572, 1574, 1576, 1578, 1580, 1582, 1584, 1586, 1588, 1590, 1592, 1594, 1596, 1598, 1600, 1602, 1604, 1606, 1608, 1610, 1612, 1614, 1616, 1618, 1620, 1622, 1624, 1626, 1628, 1630, 1632, 1634, 1636, 1638, 1640, 1642, 1644, 1646, 1648, 1650, 1652, 1654, 1656, 1658, 1660, 1662, 1664, 1666, 1668, 1670, 1672, 1674, 1676, 1678, 1680, 1682, 1684, 1686, 1688, 1690, 1692, 1694, 1696, 1698, 1700, 1702, 1704, 1706, 1708, 1710, 1712, 1714, 1716, 1718, 1720, 1722, 1724, 1726, 1728, 1730, 1732, 1734, 1736, 1738, 1740, 1742, 1744, 1746, 1748, 1750, 1752, 1754, 1756, 1758, 1760, 1762, 1764, 1766, 1768, 1770, 1772, 1774, 1776, 1778, 1780, 1782, 1784, 1786, 1788, 1790, 1792, 1794, 1796, 1798, 1800, 1802, 1804, 1806, 1808, 1810, 1812, 1814, 1816, 1818, 1820, 1822, 1824, 1826, 1828, 1830, 1832, 1834, 1836, 1838, 1840, 1842, 1844, 1846, 1848, 1850, 1852, 1854, 1856, 1858, 1860, 1862, 1864, 1866, 1868, 1870, 1872, 1874, 1876, 1878, 1880, 1882, 1884, 1886, 1888, 1890, 1892, 1894, 1896, 1898, 1900, 1902, 1904, 1906, 1908, 1910, 1912, 1914, 1916, 1918, 1920, 1922, 1924, 1926, 1928, 1930, 1932, 1934, 1936, 1938, 1940, 1942, 1944, 1946, 1948, 1950, 1952, 1954, 1956, 1958, 1960, 1962, 1964, 1966, 1968, 1970, 1972, 1974, 1976, 1978, 1980, 1982, 1984, 1986, 1988, 1990, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022, 2024, 2026, 2028, 2030, 2032, 2034, 2036, 2038, 2040, 2042, 2044, 2046, 2048, 2050, 2052, 2054, 2056, 2058, 2060, 2062, 2064, 2066, 2068, 2070, 2072, 2074, 2076, 2078, 2080, 2082, 2084, 2086, 2088, 2090, 2092, 2094, 2096, 2098, 2100, 2102, 2104, 2106, 2108, 2110, 2112, 2114, 2116, 2118, 2120, 2122, 2124, 2126, 2128, 2130, 2132, 2134, 2136, 2138, 2140, 2142, 2144, 2146, 2148, 2150, 2152, 2154, 2156, 2158, 2160, 2162, 2164, 2166, 2168, 2170, 2172, 2174, 2176, 2178, 2180, 2182, 2184, 2186, 2188, 2190, 2192, 2194, 2196, 2198, 2200, 2202, 2204, 2206, 2208, 2210, 2212, 2214, 2216, 2218, 2220, 2222, 2224, 2226, 2228, 2230, 2232, 2234, 2236, 2238, 2240, 2242, 2244, 2246, 2248, 2250, 2252, 2254, 2256, 2258, 2260, 2262, 2264, 2266, 2268, 2270, 2272, 2274, 2276, 2278, 2280, 2282, 2284, 2286, 2288, 2290, 2292, 2294, 2296, 2298, 2300, 2302, 2304, 2306, 2308, 2310, 2312, 2314, 2316, 2318, 2320, 2322, 2324, 2326, 2328, 2330, 2332, 2334, 2336, 2338, 2340, 2342, 2344, 2346, 2348, 2350, 2352, 2354, 2356, 2358, 2360, 2362, 2364, 2366, 2368, 2370, 2372, 2374, 2376, 2378, 2380, 2382, 2384, 2386, 2388, 2390, 2392, 2394, 2396, 2398, 2400, 2402, 2404, 2406, 2408, 2410, 2412, 2414, 2416, 2418, 2420, 2422, 2424, 2426, 2428, 2430, 2432, 2434, 2436, 2438, 2440, 2442, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472, 2474, 2476, 2478, 2480, 2482, 2484, 2486, 2488, 2490, 2492, 2494, 2496, 2498, 2500, 2502, 2504, 2506, 2508, 2510, 2512, 2514, 2516, 2518, 2520, 2522, 2524, 2526, 2528, 2530, 2532, 2534, 2536, 2538, 2540, 2542, 2544, 2546, 2548, 2550, 2552, 2554, 2556, 2558, 2560, 2562, 2564, 2566, 2568, 2570, 2572, 2574, 2576, 2578, 2580, 2582, 2584, 2586, 2588, 2590, 2592, 2594, 2596, 2598, 2600, 2602, 2604, 2606, 2608, 2610, 2612, 2614, 2616, 2618, 2620, 2622, 2624, 2626, 2628, 2630, 2632, 2634, 2636, 2638, 2640, 2642, 2644, 2646, 2648, 2650, 2652, 2654, 2656, 2658, 2660, 2662, 2664, 2666, 2668, 2670, 2672, 2674, 2676, 2678, 2680, 2682, 2684, 2686, 2688, 2690, 2692, 2694, 2696, 2698, 2700, 2702, 2704, 2706, 2708, 2710, 2712, 2714, 2716, 2718, 2720, 2722, 2724, 2726, 2728, 2730, 2732, 2734, 2736, 2738, 2740, 2742, 2744, 2746, 2748, 2750, 2752, 2754, 2756, 2758, 2760, 2762, 2764, 2766, 2768, 2770, 2772, 2774, 2776, 2778, 2780, 2782, 2784, 2786, 2788, 2790, 2792, 2794, 2796, 2798, 2800, 2802, 2804, 2806, 2808, 2810, 2812, 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2832, 2834, 2836, 2838, 2840, 2842, 2844, 2846, 2848, 2850, 2852, 2854, 2856, 2858, 2860, 2862, 2864, 2866, 2868, 2870, 2872, 2874, 2876, 2878, 2880, 2882, 2884, 2886, 2888, 2890, 2892, 2894, 2896, 2898, 2900, 2902, 2904, 2906, 2908, 2910, 2912, 2914, 2916, 2918, 2920, 2922, 2924, 2926, 2928, 2930, 2932, 2934, 2936, 2938, 2940, 2942, 2944, 2946, 2948, 2950, 2952, 2954, 2956, 2958, 2960, 2962, 2964, 2966, 2968, 2970, 2972, 2974, 2976, 2978, 2980, 2982, 2984, 2986, 2988, 2990, 2992, 2994, 2996, 2998, 3000, 3002, 3004, 3006, 3008, 3010, 3012, 3014, 3016, 3018, 3020, 3022, 3024, 3026, 3028, 3030, 3032, 3034, 3036, 3038, 3040, 3042, 3044, 3046, 3048, 3050, 3052, 3054, 3056, 3058, 3060, 3062, 3064, 3066, 3068, 3070, 3072, 3074, 3076, 3078, 3080, 3082, 3084, 3086, 3088, 3090, 3092, 3094, 3096, 3098, 3100, 3102, 3104, 3106, 3108, 3110, 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3126, 3128, 3130, 3132, 3134, 3136, 3138, 3140, 3142, 3144, 3146, 3148, 3150, 3152, 3154, 3156, 3158, 3160, 3162, 3164, 3166, 3168, 3170, 3172, 3174, 3176, 3178, 3180, 3182, 3184, 3186, 3188, 3190, 3192, 3194, 3196, 3198, 3200, 3202, 3204, 3206, 3208, 3210, 3212, 3214, 3216, 3218, 3220, 3222, 3224, 3226, 3228, 3230, 3232, 3234, 3236, 3238, 3240, 3242, 3244, 3246, 3248, 3250, 3252, 3254, 3256, 3258, 3260, 3262, 3264, 3266, 3268, 3270, 3272, 3274, 3276, 3278, 3280, 3282, 3284, 3286, 3288, 3290, 3292, 3294, 3296, 3298, 3300, 3302, 3304, 3306, 3308, 3310, 3312, 3314, 3316, 3318, 3320, 3322, 3324, 3326, 3328, 3330, 3332, 3334, 3336, 3338, 3340, 3342, 3344, 3346, 3348, 3350, 3352, 3354, 3356, 3358, 3360, 3362, 3364, 3366, 3368, 3370, 3372, 3374, 3376, 3378, 3380, 3382, 3384, 3386, 3388, 3390, 3392, 3394, 3396, 3398, 3400, 3402, 3404, 3406, 3408, 3410, 3412, 3414, 3416, 3418, 3420, 3422, 3424, 3426, 3428, 3430, 3432, 3434, 3436, 3438, 3440, 3442, 3444, 3446, 3448, 3450, 3452, 3454, 3456, 3458, 3460, 3462, 3464, 3466, 3468, 3470, 3472, 3474, 3476, 3478, 3480, 3482, 3484, 3486, 3488, 3490, 3492, 3494, 3496, 3498, 3500, 3502, 3504, 3506, 3508, 3510, 3512, 3514, 3516, 3518, 3520, 3522, 3524, 3526, 3528, 3530, 3532, 3534, 3536, 3538, 3540, 3542, 3544, 3546, 3548, 3550, 3552, 3554, 3556, 3558, 3560, 3562, 3564, 3566, 3568, 3570, 3572, 3574, 3576, 3578, 3580, 3582, 3584, 3586, 3588, 3590, 3592, 3594, 3596, 3598, 3600, 3602, 3604, 3606, 3608, 3610, 3612, 3614, 3616, 3618, 3620, 3622, 3624, 3626, 3628, 3630, 3632, 3634, 3636, 3638, 3640, 3642, 3644, 3646, 3648, 3650, 3652, 3654, 3656, 3658, 3660, 3662, 3664, 3666, 3668, 3670, 3672, 3674, 3676, 3678, 3680, 3682, 3684, 3686, 3688, 3690, 3692, 3694, 3696, 3698, 3700, 3702, 3704, 3706, 3708, 3710, 3712, 3714, 3716, 3718, 3720, 3722, 3724, 3726, 3728, 3730, 3732, 3734, 3736, 3738, 3740, 3742, 3744, 3746, 3748, 3750, 3752, 3754, 3756, 3758, 3760, 3762, 3764, 3766, 3768, 3770, 3772, 3774, 3776, 3778, 3780, 3782, 3784, 3786, 3788, 3790, 3792, 3794, 3796, 3798, 3800, 3802, 3804, 3806, 3808, 3810, 3812, 3814, 3816, 3818, 3820, 3822, 3824, 3826, 3828, 3830, 3832, 3834, 3836, 3838, 3840, 3842, 3844, 3846, 3848, 3850, 3852, 3854, 3856, 3858, 3860, 3862, 3864, 3866, 3868, 3870, 3872, 3874, 3876, 3878, 3880, 3882, 3884, 3886, 3888, 3890, 3892, 3894, 3896, 3898, 3900, 3902, 3904, 3906, 3908, 3910, 3912, 3914, 3916, 3918, 3920, 3922, 3924, 3926, 3928, 3930, 3932, 3934, 3936, 3938, 3940, 3942, 3944, 3946, 3948, 3950, 3952, 3954, 3956, 3958, 3960, 3962, 3964, 3966, 3968, 3970, 3972, 3974, 3976, 3978, 3980, 3982, 3984, 3986, 3988, 3990, 3992, 3994, 3996, 3998, 4000, 4002, 4004, 4006, 4008, 4010, 4012, 4014, 4016, 4018, 4020, 4022, 4024, 4026, 4028, 4030, 4032, 4034, 4036, 4038, 4040, 4042, 4044, 4046, 4048, 4050, 4052, 4054, 4056, 4058, 4060, 4062, 4064, 4066, 4068, 4070, 4072, 4074, 4076, 4078, 4080, 4082, 4084, 4086, 4088, 4090, 4092, 4094, 4096, 4098, 4100, 4102, 410

14 ANSWER 80 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 196140056 CAPLUS
 DOCUMENT NUMBER: 6019286
 ORIGINAL REFERENCE NO.: 6015186a-f
 TITLE: Behavior of halogenated nitrobenzenes with β -diketones. V. Benzoyl derivatives of substituted anilines and their conversion to quinazolones
 AUTHOR(S): Gumbir, I. R.; Joshi, S. S.
 COPYRIGHT SOURCE: Society of the Indian Chemical Society (1964), 41(13), 471
 CORDIS JCRNRY ISBN: 0019-4522
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): For diagrams, see printed CA issue
 AB 117a, 117b, and 117c on benzoylation in pyridine at 170° 3 hrs. afforded the corresponding *N*-benzoylanthranilic acids 17a, n. 261°, 17b, n. 218°, 17c, n. 218°; 17b, n. 253°, 17c, n. 253°, and 4-nitrobenzoylanthranil 17d, n. 189°, 17d yield, 17b, n. 190°, 158 yield, and 17c, n. 184°, 69% yield, resp. Va, Vb, and Vc on treatment with dry HCl gave the anilide VIs, n. 240°, 81% yield, VId, n. 245, 81% yield, and VId, n. 257-78 yields the latter on heating above their m.p.s. cyclized to the corresponding 2-phenylquinazolones VIIa, n. 213°, 15% yield, VIIb, n. 213°, 15% yield, and VId, n. 213°, 68% yield. In addition to this, several substituted deriva. of VI and VII were also prepared
 IT 34550-79-59, 41(18)-Quinazolone, 3-anilino-5-iodo-7-nitro-2-phenyl- (CA INDEX NAME)
 41(18)-Quinazolone, 3-anilino-5-bromo-7-nitro-2-phenyl- 34513-79-59, 41(18)-Quinazolone, 3-anilino-5-chloro-7-nitro-2-phenyl-
 IN PREP (Preparation of)
 RE 34550-79-59 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



NR 35429-79-1 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)

14 ANSWER 81 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 196140050 CAPLUS
 DOCUMENT NUMBER: 6019286
 ORIGINAL REFERENCE NO.: 5611591j,1595a-e
 TITLE: Heterocyclic sulfur compds. IV. 3-Anilino-3-quinazolin-4-thione and 3-anilino-3H-quinazolin-4-one
 AUTHOR(S): Legend, Louis Joseph, (Ned)
 COPYRIGHT SOURCE: Bulletin de la Societe Chimique de France (1943) 1400-4
 CORDIS JCRNRY ISBN: 0037-8968
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 5610600
 AB of. Ch. 55: 1420f, 1763e-1084. HCl added dropwise to a red saturated soln.
 IT soln. of 3,1-benzothiazine-4-thione until the solution turned yellow.
 IT was filtered and concentrated. Crystalline 3-anilino-3H-quinazolin-4-thione
 (II) was collected and recryst. from EtOH. The following substituted I were prepared (position, substituent, and m.p. given): 2-Et, 121°; 2-Propyl, 121°; 2-tert-Bu, 182°; 2-Benzyl, 123°; 2-Fn, 171.5°; 2-n-tolyl, 175.5°; 2-p-tolyl, 175.5°; 2-methoxyphenyl, 164.5°; 2-o-chlorophenyl, 141°; 2-p-chlorophenyl, 150°; 2-methoxyphenyl, 177°; 4-C-FEC1, 173°; 2-naphthyl, 210°; 2-p-naphthyl, 170°. Refluxing 3 hrs. 5.5 g. 3-anilino-2-phenyl-3H-quinazolin-4-thione and 3 g. of AcCl in 50 ml. anhydrous CHCl₃ followed by chromatography on Al₂O₃ and recryst. of the product from EtOH yielded the 3-acetylanilino derivative, n. 123°. A saturated alc. solution of 3,1-benzothiazine-4-one was refluxed a few min. with a slight excess of HCl/H₂O. The solution was filtered and concentrated. The crystalline 3-amino-3H-quinazolin-4-one
 (III) was collected and recryst. from EtOH. The following substituted II were prepared (same data as before): 2-Et 119.5°; 2-Fn, 182.5°; 2-p-tolyl, 164.5°; 2-methoxyphenyl, 185°; 2-o-chlorophenyl, 153.5°; 2-p-naphthyl, 212°; 2-p-naphthyl, 120°. Refluxing the 3-amino-2-phenyl-3H-quinazolin-4-one and 2.5 g. in pyridine yielded 3-amino-2-phenyl-3H-quinazolin-4-one
 (IV) as a hot saturated solution. By adding phenylhydrazine to a hot saturated solution of 3,1-benzothiazine-4-thione, until the color changed from red to orange it was possible to prepare the following substituted 3-PHOS analogs of I (same data as before): 2-Fn, 137°; 2-p-methoxyphenyl, 143°; 2-o-chlorophenyl, 126°; 2-methoxyphenyl, 185°; 2-p-naphthyl, 139°; 2-p-naphthyl, 138°. From squaric amide of phenylhydrazine and 3,1-benzothiazine-4-one heated to 160-85° until evolution of H₂ stopped and crystallization of the crude product from alc. the following compds. were prepared (same data as before): 2-Et, 209°; 2-Fn, 142 then 132°; 2-p-chlorophenyl, 180°; 2-p-methoxyphenyl, 187°. A saturated solution of 2 g. semicarbazide-HCl and 3 g. NaOMe was added dropwise to a hot saturated alc. solution of 3,1-benzothiazine-4-thione until the solution turned from red to yellow. The 3-ureido-3H-quinazolin-4-thione (III) n. 213°, was

14 ANSWER 82 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



NR 35429-79-2 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



NR 35429-79-3 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-4 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-5 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-6 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-7 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-8 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-9 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-10 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-11 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-12 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-13 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-14 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-15 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-16 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-17 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-18 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-19 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-20 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-21 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-22 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-23 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-24 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-25 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-26 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-27 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-28 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-29 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-30 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-31 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-32 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-33 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-34 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-35 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-36 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-37 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-38 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-39 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-40 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-41 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-42 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-43 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-44 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-45 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-46 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-47 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-48 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-49 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-50 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-51 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-52 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-53 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-54 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-55 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-56 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-57 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-58 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-59 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-60 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-61 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-62 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-63 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-64 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-65 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-66 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-67 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-68 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-69 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-70 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-71 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-72 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-73 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-74 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-75 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-76 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-77 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-78 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-79 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-80 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-81 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-82 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-83 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-84 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-85 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-86 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-87 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-88 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-89 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-90 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-91 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-92 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-93 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-94 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-95 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-96 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-97 CAPLUS
 CH 41(18)-Quinazolone, 5-chloro-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-98 CAPLUS
 CH 41(18)-Quinazolone, 5-iodo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)
 NR 35429-79-99 CAPLUS
 CH 41(18)-Quinazolone, 5-bromo-7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



NR 37955-88-8 CAPLUS

CH 41(18)-Quinazolone, 2-phenyl-3-(phenylamino)- (CA INDEX NAME)



NR 55828-25-4 CAPLUS

CH 41(18)-Quinazolinethione, 2-(4-methoxyphenyl)-3-(phenylamino)- (CA INDEX NAME)



L4 ANSWER 82 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 FBI 95594-70-8 CAPLUS
 CN 4178-Quinazolinone, 2-(4-methoxyphenyl)-3-(phenylamino)- (CA INDEX NAME)



FBI 98855-47-4 CAPLUS
 CN 4178-Quinazolinethione, 2-(1-naphthalenyl)-3-(phenylamino)- (CA INDEX NAME)



FBI 98855-48-5 CAPLUS
 CN 4178-Quinazolinethione, 2-(2-naphthalenyl)-3-(phenylamino)- (CA INDEX NAME)



FBI 94511-52-7 CAPLUS
 CN 4178-Quinazolinone, 2-(4-chlorophenyl)-3-(phenylamino)- (CA INDEX NAME)



L4 ANSWER 82 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 ACCESSION NUMBER: 194216021 CAPLUS
 DOCUMENT NUMBER: 5646021
 ORIGINAL REFERENCE NO.: 5645716, 1, 8714-a
 TITLE: Behavior of halosubstituted nitrobenzenes with β -diketones. II. 6-Nitroanthranil from 2,4-dinitrophenylacetone
 AUTHOR(S): Joshi, S. S.; Sambril, I. J.
 CORPORATE SOURCE: Merritt Coll., Inda
 SOURCE: Journal of Organic Chemistry (1961), 26, 3714-17
 COUNTRY CODES: 2599: 0022-3263
 LANGUAGE: Unavailable
 AB: *cf.* CA 50, 14719a.
 DOCUMENT TYPE: General
 LANGE: Unavailable
 INDEX on 2,4-dinitrophenylacetone (VII), was further characterized. Like anthranil (XII), it added to HgCl₂ and could be acetylated and benzoylated,

but unlike XII it formed indazole derivs. with PhNH₂ (IV), PhNHSEt (V), and NEt₄ acetate (VI). The acyl derivs. could be transformed into *o*-arylantrocyanines and subsequently to quinazolinone derivs. I (0.5 g. from XII) in 5 ml. alc. and 1.3 g. HgCl₂ in 15 ml. alc. refluxed 1 hr. gave 0.35 g. 1-HgCl₂ yellow needles, m. 158° (alc.). I (0.5 g.), 6 ml. AcOH, and 0.1 g. EtOH in 2 ml. AcOH refluxed 4 hrs. and the product crystallized gave 0.3 g. 4-nitroanthranthranil (VIII), yellow cubes, m. 138° (AcOH). The mother liquor gave more VIII and 0.2 g. 4-nitro-*N*-acetylanthranilloic acid, m. 213° (AcOH). I (0.5 g.), 4 ml. EtCl, and a few drops of C₁₂H₅N heated 3 hrs. at 150° gave 0.44 g. 4-nitrobenzoylanthranil (VIII), m. 179° (AcOH). The mother liquors from VIII gave 0.32 g. 4-nitro-*N*-benzoylanthranilloic acid (IX), m. 212° (dilute alc.). 4-Nitroanthranthranil acid (I 2 g.), 8 ml. EtCl, and a few drops of C₁₂H₅N heated 3 hrs. at 150° gave 0.32 g. VIII and 0.61 g. IX. VIII (0.3 g.) in 10 ml. alc. refluxed with addition of dry H₂S

gave 0.46 g. 4-nitro-2-benzoylantrocyanine (X), m. 230°. Treating with H₂O₂, warming with dilute NaOH, and acidifying gave IX. X (0.5 g.) heated 0.5 hr. at 250° gave 0.28 g. 7-nitro-2-phenyl-4-quinazolinone, m. 233°, VIII (0.5 g.) and 3 ml. IV heated 2 hrs. at 250° gave 0.48 g. 4-nitro-2-benzoylantrocyanine (XI), m. 220° (AcOH). XI (0.5 g.) heated 0.5 hr. at 250° gave 0.25 g. 7-nitro-2-phenyl-4-quinazolinone, m. 230°. VIII (0.5 g.) and 4 ml. V heated 2 hrs. gave 0.35 g. 4-nitro-2-benzoylantrocyaninophenylhydrazine (XII), m. 185° (dilute alc.). XII (0.4 g.) heated 1 hr. at 225°, extracted with alc., and treated with C gave 0.18 g. 3-anilino-7-nitro-2-phenyl-4-quinazolinone, m. 351°. The following *o*-arylanthracenamines were obtained from VIII and aromatic amino

compd.
 acyl group, m.p., molar of product, and % yield given: *o*-toluidide, 203°, plate, 68% m-toluidide, 203°, yellow, 67%; p-toluidide, 232°, colorless, 79%; *o*-chloroaniline, 213°, colorless, 69%; *n*-chloroaniline, 204°, yellow, 57%; *p*-chloroaniline, 234°, gray-yellow, 66%; naphthylamine, 263°, colorless, 67%; naphthylamide, 244°, yellow, 71%. The above compounds gave the corresponding 7-nitro-2-phenyl-3-(substituted)-4-quinazolinone when heated about 30° above their m.p. (2-substituent, m.p., color, and % yield given): *o*-toluidide, 254°, dirty white, 47%; *m*-toluidide, 146°, colorless, 49%; p-toluidide, 189°, pale yellow, 50%; *o*-chlorophenyl, 164°, colorless, 39%; *m*-chlorophenyl, 161°,

L4 ANSWER 81 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 FBI 95546-19-5 CAPLUS
 CN 4130-Quinazolinethione, 2-(2-chlorophenyl)-3-(phenylamino)- (CA INDEX NAME)



FBI 95546-40-3 CAPLUS
 CN 4130-Quinazolinethione, 2-(4-chlorophenyl)-3-(phenylamino)- (CA INDEX NAME)



L4 ANSWER 82 OF 84 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
 buff, 79; *p*-chlorophenyl, 171°, colorless, 41; naphthyl, 194°, colorless, 59; naphthyl, 203°, colorless, 51. VIII (0.5 g.) in 10 ml. AcOH refluxed with VI 1 hr. gave 0.46 g. 3-anilino-7-nitro-2-phenyl-4-quinazolinone (XIII), lemon yellow needles, m. 249°; benzoyl deriv., cubes, m. 295° (alc.-EtOH); acetyl deriv., plates, m. 348° (alc.).
 3-hydroxy-7-nitro-2-phenyl-4-quinazolinone was prepd. in 70% yield by the procedure for XIII with H₂SO₄/HCl, cubes, m. 244° (dil. AcOH); benzo-*o*-l derivative, m. 273° (dil. alc.); acetyl deriv., m. 157° (dil. AcOH). I (0.5 g.) and 4 ml. IV heated 3 hrs. at 140° gave 0.30 g. 4-nitro-2-phenylindazole, orange yellow needles, m. 71° (AcOH). I (0.5 g.) in 10 ml. AcOH refluxed 2 hrs. with 4 ml. H₂SO₄/H₂O gave 0.26 g. 6,6'-dinitro-1,2'-bi-indazole, orange needles, m. 214° (EtOH). I (0.5 g.) and 3 ml. V heated 3 hrs. gave 0.41 g. 6-nitro-2-anilino-indazole, m. 350° (AcOH).
 IV 95497-22-49, 4130-Quinazolinone, 3-anilino-7-nitro-2-phenyl-4-quinazolinone (XIII)
 (preparation of)
 FBI 95497-22-6 CAPLUS
 CN 4130-Quinazolinone, 7-nitro-2-phenyl-3-(phenylamino)- (CA INDEX NAME)



L4 ANSWER 83 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1961:95029 CAPLUS
 DOCUMENT NUMBER: 55159508
 ORIGINAL REFERENCE NO.: 55111621a-0
 TITLE: Reaction of halopyruvic acid with thiolamines
 AUTHOR(S): Hennequin, Peter
 CORPORATE SOURCE: Univ. Halle, Germany
 SOURCE: Chemische Nachrichten 1961, 84, 442-5
 CODING: CHEMAM; ISSN: 0029-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 CI For diagram(s), see printed CA Index.
 AB 2-mercapto-1,1-dimethyl-2-phenyl-1,2,3,4-tetrahydro-1,2,4-benzoxazine (II) yielded III (R = CO₂H) (IV). I
 (5.0
 g.) in 20 cc. H₂O treated with cooling with 2.3 g. II while being bubbled
 with H₂, the pH adjusted with 8N KOH to 7-8, the mixture kept 15 min., and
 acidified with 5N HCl yielded 1.3 g. IV, m. 147-4° (decomposition). II
 (15.5 g.) in 40 cc. dry CHCl₃ treated dropwise with cooling and stirring
 with 2.0 g. 2 and 7.0 cc. H₂N gas gave 2.0 g. crude IV. IV (0.5 g.) in 40
 cc. H₂O refluxed and cooled gave 0.73 g. III (R = H) (V), m.
 175-6°. III in MeOH treated with dry HCl and diluted with H₂O gave
 V (R = H, 194° (decomposition). The ultraviolet absorption spectra of
 IV and 5-carboxymethyl-5,6-dihydro-4,1,4-benzothiazine-3-carboxylic
 acid were recorded.
 IT 1957-37-5 110936-49-7 CAPLUS
 CI 4138-Quinoxalinothione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



HN 110936-49-7 CAPLUS
 CI 4138-Quinoxalinothione, 2-(4-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)



HN 110936-59-8 CAPLUS
 CI 4138-Quinoxalinothione, 2-(2-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)

L4 ANSWER 84 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1941:55507 CAPLUS
 DOCUMENT NUMBER: 55159507
 ORIGINAL REFERENCE NO.: 55111620f-1,11421a
 TITLE: Heterocyclic sulfur compounds. 1. Action of primary
 amines on 3,1-benzothiazine-4-thiones and
 3,1-benzothiazine-4-one
 AUTHOR(S): Legrand, Louis; Loezac'h, Noel
 CORPORATE SOURCE: Fac. sci., Caen
 SOURCE: Bulletin de la Societe Chimique de France (1960)
 CODING: MSCFAS; ISSN: 0037-8948
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB A saturated alc.-solution of 3,1-benzothiazine-4-thione and an equimolar
 quantity
 of the amine were refluxed until the initial red color changed to pale
 yellow. After evaporating 3/4 of its volume, the solution was cooled,
 and yellow
 crystals of 3H-quinoxaline-6-thione separated and was recrystd. from
 ethanol.
 or ethanol-benzene. For aromatic amines and arylbenzothiazines, the
 nature
 was heated at 200° without solvent until no more H₂S was evolved.
 The following 3H-quinoxaline-6-thiones with an alkyl or aryl substituent
 in position 2 or 3 of the heterocyclic nucleus were prepared
 (substituents
 and R, p. given): 3-ethyl, 132°; 3-butyl, 61°; 3-benzyl,
 110°; 3-phenyl, 125°; 3-(p-tolyl), 122°;
 3-(p-methoxyphenyl), 124.5°; 3-(p-sulfamoylphenyl), 256.5°;
 3,1-dimethyl, 100°; 2-methyl-3-ethyl, 109°;
 2-methyl-3-butyl, 65°; 2-methyl-3-benzyl, 84.5°;
 2-methyl-3-phenyl, 184°; 2-methyl-2-(p-methoxyphenyl), 153°;
 2-methyl-3-(p-methoxyphenyl), 232°; 2-methyl-3-(p-sulfamoylphenyl),
 267°; 2-methyl-3-(2-diethylaminoethyl), - (oil); 2-ethyl-2-methyl,
 110°; 2-(2-methyl), 84°; 2-ethyl-3-methyl, 107°;
 2-ethyl-3-(o-tolyl), 122°; 2-isopropyl-3-methyl, 56°;
 2-isopropyl-3-phenyl, 179°; 2-benzyl-3-methyl, 56°;
 2-benzyl-3-ethyl, 129°; 2-benzyl-3-phenyl, 156°;
 2-phenyl-3-methyl, 146°; 2-phenyl-2-ethyl, 116°;
 2-phenyl-3-benzyl, 149°; 2-phenyl-3-benzyl, 165°;
 2,3-diphenyl, 208°; 2-phenyl-3-(p-tolyl), 238°;
 2-phenyl-3-(p-methoxyphenyl), 238°; 2-phenyl-3-(p-sulfamoylphenyl),
 289°; 2-(p-tolyl)-3-butyl, 135°; 2-(p-tolyl)-3-benzyl,
 124°; 2-(p-methoxyphenyl)-3-benzyl, 238°;
 2-(p-methoxyphenyl)-3-phenyl, 231°; 2-(o-chlorophenyl)-3-benzyl,
 114°; 2-(p-chlorophenyl)-3-benzyl, 124°;
 2-(p-chlorophenyl)-3-phenyl, 231°; 2-(o-naphthyl)-3-phenyl,
 184°
 IT 1957-37-5P, 4138-Quinoxalinothione, 3-benzyl-2-phenyl-
 2751-4i-2P, 4138-Quinoxalinothione, 3-benzyl-2-phenyl-
 102704-89-2P, 4138-Quinoxalinothione, 3-benzyl-2-p-tolyl-
 110936-49-7P, 4138-Quinoxalinothione,
 3-benzyl-2-(p-chlorophenyl)-110936-59-8P,
 4138-Quinoxalinothione, 3-benzyl-2-(o-chlorophenyl)-
 110936-59-8P (Preparation of)
 CI 4138-Quinoxalinothione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)

HN 1957-37-5 CAPLUS
 CI 4138-Quinoxalinothione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)

L4 ANSWER 83 OF 84 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



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HN 27561-96-2 CAPLUS
 CI 4138-Quinoxalinothione, 2-phenyl-3-(phenylmethyl)- (CA INDEX NAME)



HN 102704-89-2 CAPLUS
 CI 4138-Quinoxalinothione, 2-(4-methylphenyl)-3-(phenylmethyl)- (CA INDEX NAME)



HN 110936-49-7 CAPLUS
 CI 4138-Quinoxalinothione, 2-(4-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)



HN 110936-59-8 CAPLUS
 CI 4138-Quinoxalinothione, 2-(2-chlorophenyl)-3-(phenylmethyl)- (CA INDEX NAME)

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